WELL COMPLETION REPORT

Well Name:	RANGER/Cdn Forest FLETT N-61			Daily Costs:	Feb 23/00
Purpose of Job:	Tubing change			Report #:	1
Report From:	R. Elliott	Report To:	Leroy Brown	Daily Costs:	$2,770
				Previous Costs:	$0
Current Operation:				Cummulative Costs:	$2,770
		Fluid Vol. m3	F Oil	AFE Estimate:	$1,721,500
Contractor:		Total Hauled to Lease:		AFE#	
Road/Lease:	O.K.	Total Hauled from Lease:		KB Elev:	m
Weather:		Total in Tanks:		KB. to CF:	m
Contact Phone:	1-600-700-5087	Initial Well Fluid:		KB. to THF:	m
Zone:	Tight Hole	Total Load Fluids:		Notes:	
Perforations:		Non-recov. Ann. Fluids:		E90 022	
SITP	KPa @ 06:00 hrs	Recovery Last 24 hrs.			
SICP	KPa @ 06:00 hrs	Recovery to Date:			
Rig Hr:	Cum Rig Hrs.:	Load to Recover (+New)			

TIME	OPERATION
12:00	Travel to location - Dump 5 gallons of metanol down wellhead and rig up ABB Vetco's exhaust extension hose and thaw out ice plug above top master valve. Open hydrolic master valve and check w/ manual BPV installation rod if there was a BPV in the tbg hanger - There was no valve installed - Removed the plug from tubing bonnet SSSV control port - line was full of oil - pump oil to 4000psi to open SSSV and leave pressure on line - well was on vacuum - Shut in wellhead

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/24
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 209
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Windy TEMP: 2 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Project shut down. Final report.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 1294 CUMULATIVE COST: $17180187

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT ORIG	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

Viscosity sec/L	DENSITY IN/OUT	pH	W.L. cc/30min	FC mm	PV/YP cP / Pa	GELS 0'/10' Pa/m3	TAU 0 Pa/m3	Drill Solids kg/m3	SAND kg/m3	BENTONITE kg/m3	CEC kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE						PUMP NO. 2 TYPE						PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN		MODEL	LINER mm	STROKE mm	SPM	m3/MIN		kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	kW

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.23 @ 08:00 Hours:
Drove to Ft. St. John, delivered 5 two way radio units to Petron Communications. Drove to Beaverlodge and turned 4 satellite phones over to a Blizzard representative.
Total stock:
@ Beginning: 3 wellsites, 2 rig mats and 2-400 barrel water tanks set in rack site in Ft. Liard. Keys for wellsite were brought back and will be given to Wally Scott.
Badger Rentals: 2 fire extinguishers, 4 rig mats, 1-100 barrel fresh water tank and 2 garbage bins taken to Cooper's yard in Ft. Nelson. 2 incinerators and ash bins taken to Ketek's yard in Ft. St. John.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/24
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 209 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Windy TEMP: 2 °C
8:00 a.m. OPERATION: Project shut down. Final report.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Bemanfree first aid trailor delivered back to Ft. St. John with Cooper truck. ICG Propane: 12-1000 gallon tanks were delivered to rack site in Ft. Liard, where tank fluid was checked and credit will be issued to Cdn Forest. Tanks were then released. Filled 3 wellsite trailors with propane so they will be ready to go on the next job.
Zeta: 1-500 barrel premix tank in rack site in Ft. Liard.
Items that could not be located: Faster: 1-7" H90 lifting nubbin.
Ketek: 1-3" suction foot valve for 2" Honda water pump.
Comments:
Overall Akita 58E rig and crew members worked very well on this project. The only recommendation if this rig has a similar type hole is to have suction lines for their mixing pump put in all compartments in shaker tank so one could move mud with ease and not have so much dead mud.
There is a big improvement in Beaver Enterprises operation from last winter to present day.

STATUS: CASED POTENTIAL GAS WELL.

FINAL REPORT.

REPORTED BY: D. Solberg PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/23
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 208
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: -2 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Travel to Ft. St. John, B. C.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 1008 CUMULATIVE COST: $17178893

BHA

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT #	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm	DEPTH IN	DEPTH OUT	MTRS	HRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT TOTAL	WOB daN	RPM	CUTTING STRUCT						REMARKS	
								0					-									
								0					-									
								0					-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

VISCOSITY s/qt	DENSITY kg/m3	pH	WL cc/30min	FC mm	PV/YP cP	GELS 0/10	Tol. Sol. kg/m3	Drill Sol. kg/m3	SAND %vol	BENTONITE kg/m3	CHLORIDES mg/L	OIL %	Ca mg/L	Pm cm3	ALKALINITY Pf	Mf	% O/W
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	LINER mm	STROKE mm	RPM	L/STMIN	PUMP NO. 2 MODEL	LINER mm	STROKE mm	RPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.10.22 @ 08:00 Hours:
Do some unfinished business in Ft. Liard. Drove to Ft. Nelson to Cooper Barging office, signed trucking and barging tickets. 3 of the last barging tickets were not in yet. Checked rental equipment to see if it was in place, ok. Clayton Cooper said there would a truck going to Ft. St. John on Saturday to deliver incinerator and ash bin to Ketek.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/22
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 207
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: -4 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3254.50 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3254.50 m | 8:00 a.m. OPERATION: Collect unsigned invoices. All equipment removed from lease.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 67583 | CUMULATIVE COST: $17177885

BHA

LENGTH: 0.00 m | WT. BELOW JARS: daN | JAR HRS: | JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN | ROTARY RPM: | STRING WT.: daN
DRILL PIPE O.D.: | THREAD: | DRILL COLLARS O.D.: | THREAD: | NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH m		METRES	MTRS PER HOUR	HOURS ON BIT		BIT		COND.						REMARKS	
								IN	OUT			DRL	RMO	WOB	RPM	T	O	D	L	B	G	O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30 min	FC mm	PV/YP	GELS 10"/10'	LGS % by vol	DRILSOL kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	SOLIDS % by vol	CL ppm	CA ppm	ALKALINITY MF	ALKALINITY MPO	P/C IN/OUT
	/				/	/												/
	/				/	/												/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD PUMPED m3

PUMP

PUMP NO. 1 MODEL	TYPE LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 MODEL	TYPE LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.21 @ 08:00 Hours:
Flew 2 Beaver Enterprises and 2 Cooper Barging personnel to N-61 location with Deh Cho Helicopters. Finished filling in sumps and demobilized construction equipment to river. Barged remaining equipment and construction equipment to Ft. Liard with Cooper Barging. Respotted some rental equipment at rack site with Cooper Barging bed truck. Hauled rental light towers, generator and remaining Badger equipment to their original destination in Ft. Nelson. Cleaned up unsigned invoices in Ft. Liard.
Note: Cooper Barging hauled Stiegerdon's tow tractor to Grande Prairie to get some work done on it. Chevron

SUPERVISOR: D. Solberg | PHONE #: (600) 700-2861 | CALLING CARD#: 454-037-6130-5210

CD 98/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/22
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 207 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: -4 °C
8:00 a.m. OPERATION: Collect unsigned invoices. All equipment removed from lease.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

had previously said they would pick up the trucking to Ft. St. John and Cdn Forest would pay the trucking cost from Ft. St. John to Grande Prairie and return trip to Ft. Nelson.

REPORTED BY: D. Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/21
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 206
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m . KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 0 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Demobilize construction equipment to Ft. Liard

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 49780 CUMULATIVE COST: $17110302

BHA

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	METRES	MTRS PER HOUR	HOURS ON BIT	HRS	BIT WOB	BIT RPM	CUTTING STRUCTURE						REMARKS	
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

VISCOSITY Sec/L	DENSITY kg/m3 IN/OUT	pH	WL ml/30min	CAKE mm	PV/YP	GELS 0/10	TEMP °C	DRILL SOL % kg/m3	SAND % kg/m3	RETORT % kg/m3	FLOW °C kg/m3	OIL %	CL mg/L	Ca mg/L	ALKALINITY Pm	ALKALINITY Mf/Pf	MBT IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	BIT VELOCITY m/MIN	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.20 @ 08:00 Hours:

Demobilized Beaver Enterprises camp with Cooper Barging trucks and hauled to river. Barged camp to Paramount's Landing where they took over control of the camp.

Demobilized New Beginning well site to rack site in Ft. Liard.

Note: DC Energy's fuel readings delivered to Paramount from Cdn Forest stock: Diesel - 75,000 litres, Gasoline - 82,000 litres.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/20
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 205
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Raining TEMP: 4.3 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: check road conditions to see if camp can be moved out.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 70743 CUMULATIVE COST: $17060522

BHA

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL NO.	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	RMD	BIT WT/1000	RPM	CUTTING STRUCT. 1	O	D	L	B	G	O2	R	REMARKS
										0														
										0														
										0														

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Grad. Sec/L	DENSITY IN/OUT	PV	YP	WL cc/30min	FC mm	PV/YP	GELS 0/10	TAC Sol kg/m3	Drill Sol kg/m3	LGS kg/m3	BENTONITE kg/m3	CL mg/L	OIL %	SAND %	pH	ALKALINITY MUD	ALKALINITY MUD	O/C W/OUT
	/					/	/											/
	/					/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	TYPE: LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 MODEL	TYPE: LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DC m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH		
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.19 @ 08:00 Hours:
Hauled out DC Energy equipment, fuel and Serval vacuum truck on the barge. With the chinook type weather conditions, our road is very slippery. Removed porch off camp and prepared to load two end sleepers. Transfered grass seed and fertilizer into building that was used as a storage shed by catering staff. Hauled fuel from river for generator for wellsite. Finally got it going at 15:30 hours. Bringing in Cooper bed truck today to start tearing out camp tomorrow morning.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

cp 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/10/19
DAY: 204
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 10 °C
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m
8:00 a.m. DEPTH: 3254.50 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Barging out DC Energy equipment and fuel.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 25680 CUMULATIVE COST: $16989779

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	METRES	MINS PER HOUR	HOURS ON BIT DRL	RND	BIT WT daN	RPM	CUTTING STRUCT T	O	D	L	B	G	O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP cP / Pa	GELS 0/10 kg/m2	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	IN/OUT °C
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 MODEL	LINER mm	STROKE mm	SPM	TYPE lbs/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JETS VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.18 @ 06:00 Hours:
Hauled loads to barge landing. Barged DC Energy equipment to Ft. Liard today.
Note 1: Ron McGinnis from Amoco Plant was over and welded cap on water well. Air was applied to well for 15 minutes, pressure held at 47 psi for 18 hours. Closed valve, removed fittings, installed 2" bull plug on the end of the valve.
Note 2: 1-2" 3000 psi valve and 2-2" bull plugs used on the wells are the property of Amoco Gas Plant. They will have to be returned to Amoco.
Both water wells at location are suspended.
The water well at camp is also suspended.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 96/01

Wfile

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/18
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 203
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: -6.7 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Hauling loads to barge landing.

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 19530 CUMULATIVE COST: $ 16964099

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /64in 1	2	3	DEPTH IN	DEPTH OUT	METRES	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT CIRC.	DULL RotWt	DULL RPM	CUTTING STRUCT T	CUTTING STRUCT O	CUTTING STRUCT D	CUTTING STRUCT L	CUTTING STRUCT B	CUTTING STRUCT G	REMARKS G	REMARKS S
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity sec/L	DENSITY IN/OUT kg/m3	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Wtr. Sol. kg/m3	SAND kg/m3	BENTONITE lb/bbl	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	ALKALINITY MPF	C IN/OUT
	/				/	/											/
	/				/	/											/

CONTRIBUTOR		DESILTER		DESANDER		TIP CLEARER		TOTAL MUD DUMPED
HR IN	kg/m3 OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO.	TYPE					TURB NO. 2						PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	L/MIN	kPa	DP m/MIN	DC m/MIN	NOZZLE m/sec	BHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.17 @ 00:00 Hours:

Ran temperature R/A tracer injection log with Computalog to 3145mKB. D & G Oil Services pumped 4m3 of produced fluid to fill the hole. Pumped 10m3 of produced fluid, followed by 3m3 fresh water at the rate of 100 litres/minute. Total fluid pumped into tubing 25m3. Logged hole with Computalog. Rigged out Computalog and rigged in Bonnetts Wireline unit. Ran in recorders and set at 3125mKB. Tripped out of hole and rigged out equipment.

Job completed 11:30 hours 1999.10.17.

Sent all completion equipment out to the river to meet the barge. Shut down for night at 21:00 hours 1999.10.17.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/18
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 203 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: -6.7 °C
8:00 a.m. OPERATION: Hauling loads to barge landing.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #1: Additional loads taken out: DC Energy equipment, matting and light towers, geologist wellsite. DC Energy truck hauling two 400 barrel tanks rolled on it's side coming off Cdn Forest road to Amoco road. Took truck to Ft. Liard and hauled it back to Grande Prairie.

#2: Packer in water well beside wellsites let go and blew out of casing. Ron McGinnis from the Amoco gas plant came over and welded the cap back on. There were still a couple of pin holes he could not get repaired as it was getting dark and hard to see. He said that he would be over before lunch to fix it up. Second water well (mud tank area) was rigged up with fittings and 300 psi gauge. Water pressure from the well was 20 psi. Air was applied to well for 15 minutes, pressure held at 50 psi for one hour without dropping. Closed valve, removed fittings, installed 2" bull plug on the end of the valve.
This water well is suspended.

REPORTED BY: D. Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/10/17
DAY: 202
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast / Windy TEMP: -6.8 °C
Midnight DEPTH: 3254.50 m PROGRESS: -0.10 m
8:00 a.m. DEPTH: 3254.50 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Rig out Computalog / Rig in Bonnetts Wireline

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 40280 CUMULATIVE COST: $16944569

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD.	BIT WT daN	BIT RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
										0				-										
										0				-										
										0				-										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	ALKALINITY MPO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/10/16 00:00 hours.DC Energy picker removed 64m3 tanks off matting and set matting next to wellhead. Rigged up onnetts Wireline unit. Ran in and retrieved recorders. igged up Computalog. Ran tool to 300 m, tool became stuck. Closed BOPs, pumped methonal into lubricator as they thought it could be froze. (ok) Pulled 2200 lbs on tool no results. Closed BOPs again removed lubricator, found tool to be free below. Clamped the line, cut and spliced line, reinstalled lubricator, opened BOPs retrieved logging tool. Cut off 300 m line and repliced head. Started running the hole 21:45 hours.Continued logging to 24:00 hours 1999.10.16.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/17
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 202 DEPTH: 3254.50 m PROGRESS: -0.10 m CPA NO.: 300N616040123300

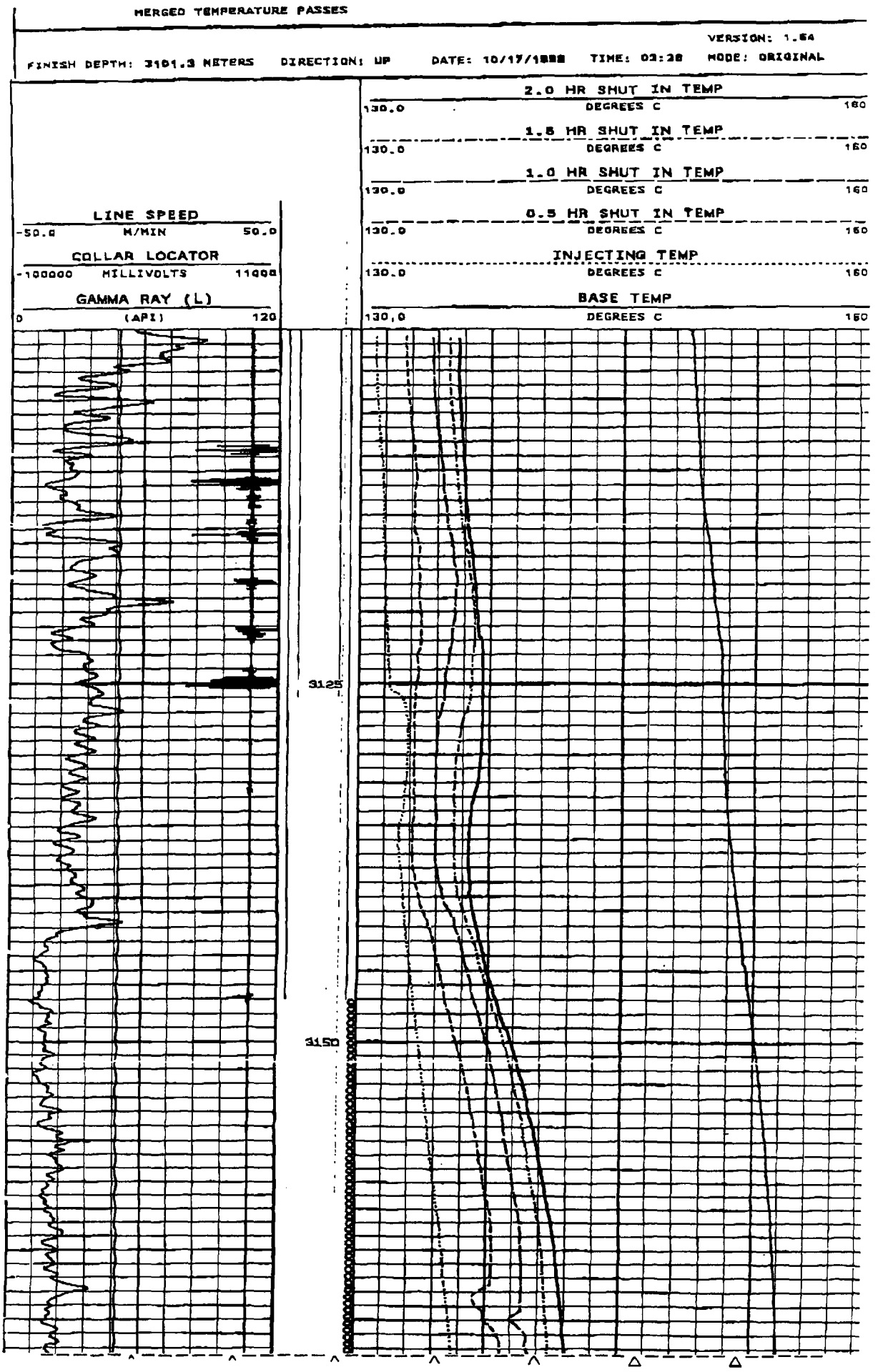
WEATHER: Overcast / windy TEMP: -6.8 °C
8:00 a.m. OPERATION: Rig out Computalog / Rig in Bonnetts Wireline

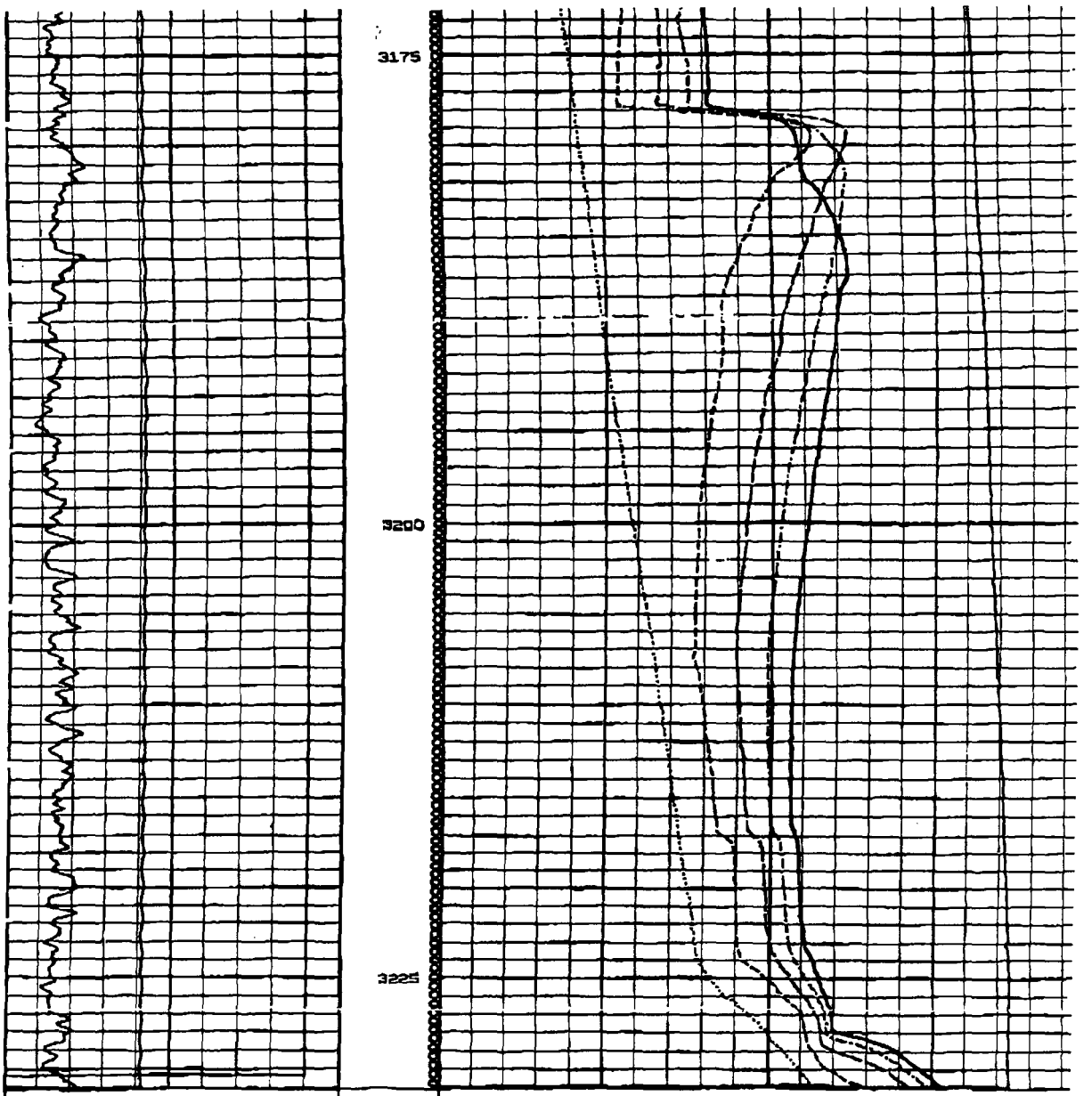
DRILLING & GEOLOGICAL REMARKS (Cont'd)

* Had Anderson Water Well Service out to set packers on water wells on location. Cut off cap,installed packer, inflated to 50 psi. Packer held 5 minutes, then was blown out with water pressure. Several attempts were made increasing air pressure to 80 psi, with no results. Run in second packer pressured to 70 psi and it held. Second well was not touched as he only brought 2 packers.
* Started demoblizing tank farms, set up tanks at barge landing to transfer fuel to. Washed production fluid tanks.
* Tore out first aid shack,second wellsite and transferedto river along with garbage bins,cement bin, 100 BBL water tank and 400 BBL fuel tanks.
* Found broken strand in the grease head on the lubricator restricking cable from going down hole.

REPORTED BY: D.Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210


MERGED TEMPERATURE PASSES
VERSION: 1.64
FINISH DEPTH: 3101.3 METERS
DIRECTION: UP
DATE: 10/17/1999
TIME: 03:28
MODE: ORIGINAL
2.0 HR SHUT IN TEMP
130.0 DEGREES C 160
1.5 HR SHUT IN TEMP
130.0 DEGREES C 160
1.0 HR SHUT IN TEMP
130.0 DEGREES C 160
0.5 HR SHUT IN TEMP
130.0 DEGREES C 160
INJECTING TEMP
130.0 DEGREES C 160
BASE TEMP
130.0 DEGREES C 160
LINE SPEED
-50.0 M/MIN 50.0
COLLAR LOCATOR
-100000 MILLIVOLTS 110000
GAMMA RAY (L)
0 (API) 120
3125
3150



GAMMA RAY (L)
0 (API) 120

COLLAR LOCATOR
-100000 MILLIVOLTS 11000

LINE SPEED
-50.0 M/MIN 50.0

BASE TEMP
130.0 DEGREES C 160

INJECTING TEMP
130.0 DEGREES C 160

0.5 HR SHUT IN TEMP
130.0 DEGREES C 160

1.0 HR SHUT IN TEMP
130.0 DEGREES C 160

1.5 HR SHUT IN TEMP
130.0 DEGREES C 160

2.0 HR SHUT IN TEMP
130.0 DEGREES C 160

START DEPTH: 3231.0 METERS DIRECTION: UP DATE: 10/17/1999 TIME: 03:28 MODE: ORIGINAL
VERSION: 1.64

REMARKS

MERGED TEMPERATURE PASSES

VERSION: 1.64

MERGED TEMPS

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/10/16
DAY: 201

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Light Flurries TEMP: -8.2 °C
Midnight DEPTH: 3254.50 m PROGRESS: -0.10 m
8:00 a.m. DEPTH: 3254.50 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Retrieve recorders w/Bonnetts / Haul loads to barge landing

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 335825 CUMULATIVE COST: $16904289

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RND	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/l	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/10/15 06:00 hours. Hauled mud products, waste oil, propane tanks and second sleeper to barge landing on the frost. Brought in Bonnetts Wireline, Computalog, Compass trucks. DC Energy 25 ton picker was late getting to barge landing so it came across on second barge trip. The equipment had to sit on location until picker arrived so they could set up and pull the recorders. Wait on location for picker to 24:00 hours 1999.10.15.

* Land Transport portion of demobilizing rig to rack site in Ft Liard $306,055.

* Picker arrived on location just after midnight, removed matting from under 400 BBl tanks. Set matting next to well,

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/16
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 201 DEPTH: 3254.50 m PROGRESS: -0.10 m CPA NO.: 300N616040123300

WEATHER: Light Flurries TEMP: -8.2 °C
8:00 a.m. OPERATION: Retrieve recorders w/Bonnetts / Haul loads to barge landing

DRILLING & GEOLOGICAL REMARKS (Cont'd)

rigged up Bonnetts Wireline. Started running in the hole to retrieve recorders 05:30 hours 1999.10.16.

REPORTED BY: D.Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
L.S.D.: 300-N61-6040-12330-0
LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300
DATE: 99/10/15
DAY: 200
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E
KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:
WEATHER: Snowing TEMP: -3.7 °C
FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m
PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Hauling loads to barge landing.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 27342 CUMULATIVE COST: $16568464

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:
WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

TOTAL ROTATING HOURS: 2535.9

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpf	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.14 @ 06:00 Hours:

Hauled casing, produced fluid, acid, cement and one sleeper to barge landing. Loaded second sleeper, production mud chemicals, waste oil, four propane skids and one wellsite unit. Waited on frost to haul to barge landing. Shut down due to darkness at 18:00 hours 1999.10.14.

Note: Tomorrow: Bringing in Computalog, Bonnet Wireline, DC Energy equipment, Compass pumping unit, tank truck, and Anderson Water Well unit.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/14
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 199
OFFICE SUPERVISOR: Nickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: -2.7 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Hauling production fluid, casing and cement to barge landing

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 34627 CUMULATIVE COST: $16541122

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:
WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

TOTAL ROTATING HOURS: 2535.9

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH m IN	DEPTH m OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	HOURS ON BIT ROTATE	BIT DULL T	BIT DULL B	CUTTING STRUCT						REMARKS	
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

Viscosity sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND %	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY PM/PO	T °C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE		DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3 OUT	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1					PUMP NO. 2									
MODEL	LINER mm	STROKE mm	SPM	kPa	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	ANNULAR VELOCITY DP m/MIN	ANNULAR VELOCITY DC m/MIN	NOZZLE VELOCITY m/SEC	SHOE m

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.10.13 @ 06:00 Hours:
Hauled pipe, produced fluid, acid and rental equipment load to barge landing. Brought in Compass trucks and hauled out m3 acid and 76m3 produced fluid to camp rack site. Transcontinental was in and loaded 50 joints of 177mm x kg/m L80 LTC casing, 23 joints of 114mm x 18.75 kg/m L80 NSCT tubing, Baker liner hanger and miscellaneous float equipment and rentals. Sanjel came in to load 28 tonnes of cement. Waited on frost to haul loads to barge landing in the morning. Shut down for night at 22:00 hours 1999.10.13.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/14
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 199 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: -2.7 °c
8:00 a.m. OPERATION: Hauling production fluid, casing and cement to barge landing

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #1: Message received today that Bonnett Wireline will be in October 15, 1999, to pull their recorders and Computalog will log the hole again. DC Energy's 25 ton picker has an extended reach of 102 feet. Production said they need at least 80 feet of reach, so that picker should work for them.
#2: Powell Trucking should be in for production mud chemicals and Transcontinental will be in for the waste oil tomorrow morning.
#3: All produced fluid and acid off location.

REPORTED BY: D. Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/10/13
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 198
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Snowing	TEMP: -1.5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m	8:00 a.m. OPERATION: Hauling rig loads and fluid to barge landing.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 28411 CUMULATIVE COST: $16506495

BHA

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD PUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	%HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
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° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.12 @ 02:00 Hours: Hauled rig loads to barge landing on the frost. Loaded Norward flare stack, drill pipe and drill collars. Cleaned up garbage on the lease, back bladed lease leaving lease in good condition. Pumped off camp sewer pit. Waited on frost to haul remaining rig loads, production fluid and acid to barge landing. Shut down due to darkness at 20:00 hours 1999.10.12.

Note #1: Compass loaded 53m3 produced fluid (77m3 remaining) 32m3 acid (9m3 remaining).

Note #2: Bringing in Transcontinental, Powell and Sanjel trucks to take out casing, production chemicals and cement tomorrow morning, October 13, 1999.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

ED 06/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/12
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 197
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: -4.2 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Hauling rig loads to barge landing on the frost.

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 25624 CUMULATIVE COST: $ 16478084

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	4	DEPTH OUT	METRS	METRS PER HOUR	HOURS ON BIT DRL	TOTD	BIT WT daN	RPM	CUTTING STRUCT. T	O	D	L	B	G	REMARKS O	R
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	BHC °	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tr. Sol. %	Drill Sol. kg/m3	SAND %	BENTONITE kg/m3	LGS kg/m3	OIL %	CCA ppm	Cl ppm	ALKALINITY Mf	Pm	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1					TYPE	PUMP NO. 2					TYPE	PRESSURE	ANNULAR VELOCITY		JET		
MODEL	LINER mm	STROKE cm	SPM	m3/min		MODEL	LINER mm	STROKE cm	SPM	m3/min		kPa	DP m/min	DC m/min	VELOCITY m/sec	NHP

SURVEYS

AZIMUTH

° @ m
° @ m
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° @ m
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° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.11 @ 02:00 Hours:
Hauled loads to barge landing on the frost. Loaded matting, C-cans, rig manager's wellsite trailer and miscellaneous equipment on trailers. Shut down due to darkness at 20:00 hours. Waited on frost to haul rig loads to barge landing to 24:00 hours 1999.10.11.

Note #1: Rig loads remaining on location (16). Should be 6 loads of tubulars left after tomorrow morning's barge run.
Note #2: Bringing in Compass fluid trucks tomorrow to haul out 130m3 produced fluid and 41m3 acid.
Note #3: Correction on diesel readings at tank farm: Oct. 5 103,000 litres, present reading, Oct. 11 - 89,500 litres.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/10/11
DAY: 196

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Clear TEMP: -6.2 °C
Midnight DEPTH: 3254.50 m PROGRESS: -0.10 m
8:00 a.m. DEPTH: 3254.50 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Hauling rig loads to barge landing on the frost.

AFE #: A983003 AFE AMT: $111253700 DAILY COST: $ 39454 CUMULATIVE COST: $116454460

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLE mm 1	2	3	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	RMD	WT daN	RPM	CUTTING STRUCT.						REMARKS	
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity sec/L	DENSITY kg/m3 IN	OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 10s	GELS 10m	Tbl. Sol. % by vol	Dwnh. Sol. kg/m3	SAND % by vol	BENTONITE kg/m3	LCM kg/m3	O.I. %	Cl ppm	Ca ppm	ALKALINITY Pm	ALKALINITY Mf	C % IN	C % OUT
	/					/	/												/	
	/					/	/												/	

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	LINER mm	STROKE cm	SPM	m3/MIN	PUMP NO. 2 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	TYPE	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	VELOCITY m/min	HHP

SURVEYS

AZIMUTH

° @ m
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° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/10/10 03:00 hours. Hauled loads to barge landing. Held safety meeting with Land Transport, LaPrairie, Akita and Cooper personnel. Bed loaded mud pumps to camp rack site. Load derrick on high boys and haul to camp rack site. Shut down due to darkness and wait on frost to haul rig loads to barge landing.

99/10/10 20:00 hours.
Note(1) Land Transport flew driver to Amoco air strip to replace injured driver who slipped off his truck and hurt his back. Injured worker Leslie Whitney was returned to Ft.St.John on the same plane 99/10/09.
Note(2) Sent 1 crane, 2 Tesco loads, 8 rig loads across on

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 96/11

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/11
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 196 DEPTH: 3254.50 m PROGRESS: -0.10 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -6.2 °C
8:00 a.m. OPERATION: Hauling rig loads to barge landing on the frost.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

barge trip today. Total loads taken to barge landing was 15. Second crane will be sent out on barge tomorrow.

REPORTED BY: D.Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 96/07

WORKERS' COMPENSATION BOARD
PLEASE SEND THIS REPORT TO THE OFFICE COVERING WORKER'S WORKPLACE AREA

First Aid Report

Please answer all questions and complete this report in ink.

Supplementary to Employer's Form 7 "Employer's Report of Injury or Occupational Disease."

The following questions to be completed in full by First Aid Attendant, or other person rendering first aid. Please sign and attach to the Form 7 for submission to the office covering the worker's workplace area.

WCB Head Office: 6951 Westminster Highway Richmond BC V7C 1C6

Please Note:
Facsimile (fax) copies are acceptable at all WCB offices in British Columbia.

WORKER'S LAST NAME (please print)
Mr Ms Mrs
Whitney
First name: Leslie
Initial: D.
Mailing address: 12766 114 AL St
City: Edmonton
Province: A.B.
Postal code: T5E 5C5
Social insurance number: 633 461 371
Date of birth: 02 19 65
Weight: 160
Height: 5 7
Marital status: Married Single Other

Employer's name as registered with the Board: LAND Transport
Mailing address: BOX 6430
City: Ft. St John
Province: BC
Postal code: V1J 4H8
Location of plant or project where injury occurred: Pointed Mountain
Type of business: Trucking
Worker's occupation: D

1. Date and time of injury: 10 9 99 at 530 a.m. p.m.
2. (a) Time of reporting to First Aid Attendant: 10 9 99 at 600 a.m. p.m.
(b) How did the worker get to the First Aid Room? (ambulance, stretcher, truck, etc.): truck
(c) Name of person who brought to the First Aid Room? lyle Cambel
(d) Does the worker continue working? Yes No If yes, for how long?
Was the injury or period observed? Yes No
3. Nature of injury or illness and part of body affected: red marks on lower back and on floating ribs left side
4. Treatment given: examined, palpated, applied cold
5. Was the worker hospitalized? 10 9 99 ?
Was the worker transported to a hospital by ambulance? Yes No
6. Name and address of hospital or doctor: Pointed Mountain N.W.T.
7. Was the worker unable to work on the day of injury or during the shift? Yes No
8. Signature of First Aid Attendant: Place
Date: Oct 9/99
9. Name of First Aid Attendant: Dec 1 98
Certificate number: 00051995
Grade: unristicted
10. Additional comments: SLIPPED OFF FENDER OF BED TRUCK. FELL HARD ON MY BACK ON STEP.

7A (Rev. 96/10)

ADDITIONAL INFORMATION CAN BE RECORDED ON THE REVERSE SIDE OF THIS REPORT
Please see the reverse side of this report for Fax Numbers, Service Delivery Locations and Area Offices

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/10/10
DAY: 195
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: -5.5 °C
Midnight DEPTH: 3254.50 m PROGRESS: 3254.50 m
8:00 a.m. DEPTH: 3254.50 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Load derrick on trailers and haul loads to barge landing

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 39010 CUMULATIVE COST: $16414965

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /64in			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	WOB daN	RPM	CUTTING STRUCT 1	2	3	4	5	6	7	8	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

VISCOSITY sec/L	DENSITY kg/m3 IN	DENSITY kg/m3 OUT	pH	FL cc/30min	FC mm	PV/YP	GELS 10/10	Tol. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	CL ppm	CA ppm	ALKALINITY Mf	ALKALINITY Pf/Fo	OC IN/OUT
	/					/	/											/
	/					/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE					PUMP NO. 2 TYPE					PRESSURE kPa	ANNULAR VELOCITY DP m/min	ANNULAR VELOCITY DC m/min	BIT VELOCITY m/min	BIT TFA
MODEL	LINER mm	STROKE mm	SPM	L/min	MODEL	LINER mm	STROKE mm	SPM	L/MIN					

SURVEYS

AZIMUTH

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TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/10/09 07:00 hours.Held safety meeting with Land Transport LaPrairie, Akita and Pajak personnel. Removed the derrick from substructure and broke it down to suck on loads. Broke down substructure.Prepared it for loading. Bed loaded three box subs, A-leg section, Tasco equipment up to the campsite. Shut down due to darkness. Waited on frost to haul loads to barge landing in the early morning. Shut down at 20:00 hours 1999.10.10.
Note # 1 Delivered 10 loads of rig and 3 loads of production equipment to barge today. (single barge trip)

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 456-037-6130-5210

CD 96/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/10/09
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 194
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -4.6 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m	PROGRESS: 3254.50 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m	8:00 a.m. OPERATION: Remove derrick from substructure and demobilize derrick		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 34074 CUMULATIVE COST: $16375955

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	ROT	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUSE HR IN	kg/m3	OUT	kg/m3	DEBILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO: 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/min	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/min	DC m/min	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
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° @ m
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° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/10/08 07:00 hours. Held safety meeting with Land Transport, LaPrairie, Akita, and all onsite personnel. Tore out premix, mud tanks, Tesco equipment, generators, pumps, SCR building, fuel tank, dog house, draworks, boiler, degasser and five loads of pipe. Hauled it up to camp site. Shut down due to darkness. 99/10/08 19:00 hours.

Note # 1 Truckers are going to start hauling loads to barge landing 03:00 hours 99/10/09 if road stiffens up.

2 Chevron released one Steiger winch tractor today which we brought across on our single barge trip today. It should speed up lost time waiting for stuck trucks to be pulled out.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

86/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/08
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 193
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: -3.5 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3254.50 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3254.50 m | 8:00 a.m. OPERATION: Tear out Akita 58E with Land Transport

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 20504 CUMULATIVE COST: $17372690

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT. L	O	D	L	B	G	O	REMARKS R
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

Turned Cdn Forest et al Flett N-61 well over to Drilling Division 1999.10.07 @ 00:01 hours.

1999.10.07 @ 08:00 Hours:
gged out Akita 58E. Prepared to lower derrick. Lowered derrick @ 11:30 hours. Unstrung drilling line from derrick. Lowered and dismantled Norward flare stack with the crane. Sucked out boiler, water tanks and ditches with vacuum truck. Hauled shale and padded up lease (pipe rack area). Mud tank side for crane to take off derrick to eliminate the chances of tipping over crane due to soft lease conditions. Shut down due to darkness at 20:00 hours 1999.10.07.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/08
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 193 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -3.5 °C
8:00 a.m. OPERATION: Tear out Akita 58E with Land Transport

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Started raining 05:30 hours making road from location to barge landing very slippery causing rig moving, mud hauling, fluid hauling trucks problems keeping their trucks on the road.

REPORTED BY: D.Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 06/17

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/07
W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 192
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: -2 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3254.50 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3254.50 m | 8:00 a.m. OPERATION: Prepare to lower derrick.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 885 | CUMULATIVE COST: $17352186

BHA

LENGTH: 0.00 m | WT. BELOW JARS: daN | JAR HRS: | JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN | ROTARY RPM: | STRING WT.: daN
DRILL PIPE O.D.: | THREAD: | DRILL COLLARS O.D.: | THREAD: | NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
										0				-										
										0				-										
										0				-										

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	% C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	JET IMP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.06 00:00-24:00 Hours:
Demobilized Tesco top drive and torque tube. Tore out rig. Got derrick prepared to be lowered in the morning. Shut down due to darkness 1999.10.06 @ 21:00 hours. Bed trucks came in on first barge trip, drove to location and hauled Norward equipment to river for second barge trip. Note: Equipment to rack rig: Land Transport (2 big bed trucks, 2 small bed trucks, 2 commanders, 1 tractor, 1 picker). LePrairie - 2 cranes. Cooper Barging - 4 tractors and 4 extra trailers. Sent 2 water samples from well #1 and 2 water samples from well #2 with Computalog to drop off centre in Ft. St. John. These samples will then go to Core Lab, Calgary, by courier.

SUPERVISOR: D. Solberg | PHONE #: (600) 700-2861 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/10/06
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 191
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Foggy	TEMP: -3 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m	PROGRESS: 0.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m	8:00 a.m. OPERATION: Demobilize Tesco top drive.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 885 CUMULATIVE COST: $17351301

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRC	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30mm	FC m/m	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drd. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.10.05 00:00-24:00 Hours:

Met with Lyle Campbell, truck supervisor with Land Transport discussed rig move operations. Tear out equipment should be coming across on barge 1999.10.06. Contacted Milton Cooper with Cooper Barging to have four tractors and four extra trailers at barge landing at Ft. Liard Thursday morning October 7th. Fuel readings for October 5th (diesel-254,000 litres, gasoline-81,000 litres). Contacted Gordie Ishia with fuel centre, said he would get back on Friday October 8th with the amount of petroleum products he could handle. Sanjel cement bin contains 20 tonnes 0-1-0 Class "G" and 8 tonnes Thermal 40 so a bulker will be required to haul the

SUPERVISOR: D. Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/06
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 191 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Foggy TEMP: -3 °C
8:00 a.m. OPERATION: Demobilize Tesco top drive.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

cement back to Ft. St. John.

Note #1: Cooper Barging has committed one large barge for the duration of the move out from Flett N-61. This begins 1999.10.06.

#2: Contacted Al Cutt, Drilling Manager with Chevron, regarding the use of Chevron's dedicated barge later this week, or on the weekend, to assist in getting all loads out of N-61. Al was positive and will get back to us regarding timing.

REPORTED BY: D. Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/05
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 190
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Light flurries | TEMP: -3 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3254.50 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3254.50 m | 8:00 a.m. OPERATION: Logging with Computalog

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 62618 CUMULATIVE COST: $17350416

BHA

LENGTH: 0.00 m | WT. BELOW JARS: daN | JAR HRS: | JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN | ROTARY RPM: | STRING WT.: daN
DRILL PIPE O.D.: | THREAD: | DRILL COLLARS O.D.: | THREAD: | NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	HRS	HRS PER HOUR	HOURS ON BIT DRL	RMD	WOB daN	RPN	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

VIS @ °C	DENSITY IN/OUT	PH	WL cc/30min	FC mm	PV/YP	GELS 0/10	TOL SOL %	DRIL SOL kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	CL ppm	SI ppm	ALKALINITY PM	ALKALINITY MFO	°C @ OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD PUMPED m3

PUMP

PUMP NO. 1 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.04

Bladed snow off hill between rig and camp. Moved Dowell Schlumberger trucks up to campsite and then down to river to be placed on barge. Contacted Land Transport and arranged to have tear out trucks, extra trailers and cranes left Ft. Liard on Wednesday morning October 6th. It is not known if there will be a barge available but there could be an opening so equipment could get across river and start demobilizing rig.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/04
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 189
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Light flurries TEMP: -6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Servicing well with Akita 58E

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 6170 CUMULATIVE COST: $17287798

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:
WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

TOTAL ROTATING HOURS: 2535.9

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH m IN	DEPTH m OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	WT. on BIT	RPM	CUTTING STRUCT.						REMARKS
										0				–								
										0				–								
										0				–								

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	PH	WL cc/30min	PC mm	PV/YP	Gels 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/l	Ca ppm	ALKALINITY Pm	Pf/Mf	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

Sulph-Acid 6

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.03

Drove to barge landing, picked up Alpine Environmental personnel and equipment and returned to location. Took samples of fluid in pits. Received pH readings of 12.5 which was alot higher than last weeks readings of 8.9 before fluid was dumped. It is not known why readings increased that dramatically. Circulated pit fluid, mixed six sacks sulphamic acid, dropped pH to 8.5. Pumped off fluid, loaded equipment and returned to barge landing with Alpine Environmental personnel to meet river boat. Returned to location.

SUPERVISOR: D.Solborg PHONE #: (600) 700-2861 CALLING CARD #: 454-037-6130-5210

ED 98/07

PAJAK ENGINEERING LT.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/04
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 189 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Light flurries TEMP: -6 °C
8:00 a.m. OPERATION: Servicing well with Akita 58E

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Remote pit at gravel pit was pumped off but the pit beside mud storage building was left because it contained mostly solids with six inches fluid on top.

REPORTED BY: D.Solberg

PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/03
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 188
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Snowing TEMP: -5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Servicing well with Akita 58E

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 885 CUMULATIVE COST: $17281628

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT ORE	ROT	BIT WT/1000	BIT RPM	CUTTING STRUCT 1	2	3	4	5	6	7	8	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

VISCOSITY sec/l	DENSITY IN/OUT	pH	WL cc/30min	FC mm	FV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	CI ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	TYPE LINER mm	STROKE mm	BPM	m3/MIN	PUMP NO. 2 MODEL	TYPE LINER mm	STROKE mm	BPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
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° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.10.02
Checked out remaining rental equipment for up and coming job operations. Rigged up eight man sleeper for future operations to hold camp overflow personnel. Rigged in two light tower generators on location.

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/10/02
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 187
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: -12 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3254.50 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Servicing well with Akita 58E

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 1034044 CUMULATIVE COST: $17280743

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCTURE						REMARKS
								IN	OUT			DRL	RMD	WT daN	RPM	I	O	D	L	B	G	
										0				–								
										0				–								
										0				–								

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity s/qt	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/0	Tot. Sol kg/m3	Drill Sol kg/m3	SAND % by V	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY MPC	Cl IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD VOLUMES m3

PUMP

PUMP NO. 1 TYPE MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DC m/MIN	DP m/MIN	JET VELOCITY m/sec	HHP

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.29
Drove from home to Ft. Liard and stayed overnight at base camp.

1999.09.30
Met with Doug Graham with Beaver Enterprises and checked out [illegible] rack site. Decided to rack rig on top of hill adjacent to Ft. Liard access road. Contacted Ken Almond, dispatcher with Land Transport and talked about up and coming rig move (equipment needed, rack site etc.) Stayed overnight at base camp.

1999.10.01
Met with Cooper Barging and was told they were making some

SUPERVISOR: D.Solberg PHONE #: (600) 700-2861 CALLING CARD#: 454-037-6130-5210

06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/10/02
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 187 DEPTH: 3254.50 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -12 °C
8:00 a.m. OPERATION: Servicing well with Akita 58E

DRILLING & GEOLOGICAL REMARKS (Cont'd)

barge trips for Chevron in the morning and would probably be able to make a trip for Forest Oil in the afternoon. Came across on the barge and drove to location that evening.
Note: New rig fax number - 1 600 700 9439
New rig phone number - 1 600 700 2861
Woody's phone number - 1 600 700 3395

REPORTED BY: D.Solberg PHONE #: (600) 700-2861
CALLING CARD #: 454-037-6130-5210

CD 06/97

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	17
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	05-Oct
FORMATION(S):	Nahanni	DATE REPORTED:	06-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	0
OPER. at 0600 HRS:	Rig Released @ 06:00, 06-10-99. Tear out to move.	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Running PND log. Log not reading due to fluid drop.	**Major Costs**	
9:00	- Pump 18 m^3 down tubing with hole fill pump from trip tank.		
11:30	- Log with Computalog		
15:30	- Rig out Computalog & rig in Bonnett's wireline		
17:00	- Run in hole with wireline to record gradients		
18:00	- P.O.O.H. get static gradients: 3230m = 29258 Kpa, BHT = 155.5c, Fluid Level @		
	+/- 230m KB		
20:00	- Make up BH Pressure recorders & XN Lock. RIH tagged sub surface safety Valve		
	(SSSV) jarred free & P.O.O.H.		
22:00	- Run in hole with 3.80" (96.52mm) Gauge Ring work through SSSV until free, continue		
	tagged @ 3110m (on/off) work through until free. All other profiles OK! To NO-GO		
0:30	- R.I.H. with lock to SSSV, could not get through. Pull out file down No-Go ring re-run		
	went through OK.		
2:00	- Make up BH Pressure recorders & XN Lock. RIH set in XN Profile 3125m KB. Pull out		
	of hole with wireline. Rig out Bonnett's. Recorders on bottom @ 02:25hr., 06-10-99		
3:30	- Rig off Norward ESD & Flow line. Install bull plugs & needle valves. Diesel fuel in		
	annulas. Well secured.	Computalog	43,173
6:00	- Rig release @ 6:00, 06-10-99. Rig out rig to move off.	Trucking	35,000
		Beaver	5,000
		Camp	5,500
		Rentals	5,600
		Testers	4,500
		Rig	9,448
		DAILY COST	121,743
		PREVIOUS	2,182,605
Rig HRS		TOTAL COST	2,304,348

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)		131.6	131.6	WEATHER	Cloudy
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi= +3c, Lo= -2c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Icy
TOTAL LOAD FLUID (ti+ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perlard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE		188.8	188.8	CONTRACTOR	Akita 58E
TOTAL FLUID PRODUCED (NEW)		57.2	57.2	REPORT TO	Jim Munro/Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	16
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	04-Oct
FORMATION(S):	Nahanni	DATE REPORTED:	05-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	TSTM
OPER. at 0600 HRS:	Logging Open Hole with PND Log	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Make up 86mm, 10m perforating gun, 20 spm, 23 gr. DP	**Major Costs**	
	- Held safety meeting.		
	- Run in hole with perforating gun. Log on depth from casing shoe.		
	- Perforate 3224.7m to 3234.7m, Gun Fired		
	- Pull out with perforating gun. All shots fired		
	- Monitor well. No change after shooting.		
	- Wait on PND log. Rig out Dowell BOP etc. & release Dowell.		
20:00	- Tool arrived. Make up PND log & run in hole. Log 4 meters, tool malfunctioned.		
0:00	- Lay down tool. Found contact pin in cable head burned out. Also nuclear generator		
	on tool not functioning properly. Repaired cable head & changed out complete logging		
1:30	- Pick up logging tool & run in hole. Start logging, hole found dry, pulled up to		
	2000m KB		
3:00	- Rig up pump to Wellhead. Pumped 8m3 filtered water down tubing. Run to bottom.		
	Start logging well with PND		
6:00	- End report.		
		Computalog	30,076
		Stim. Acid	265,400
		Beaver	7,200
		rentals	5,700
		Camp	5,500
		Rig	9,448
		DAILY COST	342,116
		PREVIOUS	1,840,489
Rig HRS		TOTAL COST	2,182,605

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID PUMPED IN		105.6	105.6	WEATHER	Cloudy, flurries
TOTAL FLUID TRUCKED OUT			0.0	TEMP. (°C)	Hi = +3, Lo = -2c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Icy
TOTAL LOAD FLUID (bf=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perlard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE		188.8	188.8	CONTRACTOR	Akita 58E
TOTAL FLUID PRODUCED (NEW)		83.2	83.2	REPORT TO	Jim Munro/Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	15
UNIQUE ID:.	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	03-Oct
FORMATION(S):	Nahanni	DATE REPORTED:	04-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	100
OPER. at 0600 HRS:	Finish out with Gauge tool. Assemble perforating gun	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY ITEM	AMOUNT
		Major Costs	
6:00	- Rig in Dowell Coil tubing, pressure test N2 to 28 Mpa, pressure test pumper to 35 Mpa		
	- Bleed off well.		
	- Run in hole with coil tubing pumping filtered fresh water @ 200 litres per minute.		
	Stop @ 3100m continue pumping water total 27.4 m^3 to fill hole.		
	- Start pumping 15% HCL, shut in tubing with acid @ end of coil & coil @ 3186m		
	- Pump 20.0 m^3 acid @ 150 litres/min. in 4 X 5.0 m^3 stages let stand 15 minutes		
	between each stage. Max. wellhead pressure pumping = 13,500, minimum pressure		
	after 15 minutes = 4,300 Kpa. After 30 minutes final = 2,700 Kpa.		
16:15	- Open to test vessel bled off 150 litres. Well dead.		
16:30	- Begin pumping N_2 to bring out fluid.		
19:00	- Run coil to bottom & work to lift debris "fill" to 3250m, Pump foam sweeps to aid in		
	cleaning and lift. Damaged coil 2450m - 2475m +/-. Total fluid pumped = 54.8 m^3		
	Total flid recoverd = 122.8 m^3. Total produced fluid = 68.0 m^3		
1:30	- Rig out Dowell Coil Tubing		
2:00	- Rig in Computalog & run 91.44mm gauge tool & junk basket.		
	- Tagged solid (4 times @ 3234.8m)		
	- Pull out of hole with gauge tool.		
6:00	- Finish out with gauge tool.	Testers	5,000
		Rentals	5,800
		Slick/E - line	5,000
		Beaver	7,100
		Camp	5,500
		Coil Tubing	50,000
		Rig	9,448
		DAILY COST	101,640
		PREVIOUS	1,738,849
Rig HRS		TOTAL COST	1,840,489

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Snow, Overcast
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi = -3c, Lo = -7c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Icy
TOTAL LOAD FLUID (tif=ti-to-ct)		54.8	54.8	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard
RECOVERY LAST 24 HOURS		122.8	122.8	MOBILE	1-600-700-3395
RECOVERED TO DATE		68.0	68.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Jim Munro/Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

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WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	14
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	02-Oct
FORMATION(S):	Nahanni	DATE REPORTED:	03-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	3450
OPER. at 0600 HRS:	Rig out comput log & rig in Dowell coil tubing	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Pull out #4 bailer run with Bonnett's Braided line. Recovered +/- 2litres formation	**Major Costs**	
	pieces from fine to 25mm x 12mm, Re run bailer, pull & recover +/- 2 litres as prior		
	- Bailed to 3232.0m ? By braided line.		
	- Rig out Bonnett's		
14:00	- Wait for perforating guns etc. to arrive.		
16:00	- Computalog prepare guns spot Computalog unit, rig in same with lubricator for		
	10m of 86mm perforating gun: 20 spm, 60° phasing, 23 gr., total 191 shots		
20:30	- Held safety meeting. Pick up & run perforating gun. Change to lighter oil in lubricator		
	due to cold conditions. Continue in hole. Log in place 3181m to 3191. Gun appeared to		
	misfire, pul out to 150m. Held safety meeting on handling of misfired gun. Pull up to		
	wellhead, ice build up in lubricator & BOP, steam off. Gun not fired, lay down & inspect.		
1:30	- Replace detonator cap. Re Run perforating gun, log into position & perforate 3181.0 -		
	3191.0m. Pressure 3450 Kpa before shooting, well remained static after shooting.		
	- Pull out of hole with gun. All shots fired		
6:00	- Rig out Computalog.		
		Bonnett's	29,292
		Computalog	32,000
		Camp	5,500
		Rig	9,448
		DAILY COST	153,562
		PREVIOUS	1,585,287
Rig HRS		TOTAL COST	1,738,849

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Variable clear to overcast/ snow
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi = +1, Lo = -6c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Fair icy hills
TOTAL LOAD FLUID (tl=ti-to-ct)		47.4	47.4	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perlard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Jim Munro/Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	13
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	01-Oct
FORMATION(S):	Nahanni	DATE REPORTED:	02-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	2820
OPER. at 0600 HRS:	Run #4 on bottom (Bailer)	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Monitor build up pressure.	**Major Costs**	
8:00	- Rig up Bonnett's / Computalog lubricator & pressure test to 21.0 Mpa		
11:15	- Run in with 91.44mm gauge tool on wireline. Tag @ 3230m (3 times) pull +/- 30 kg over		
	pull out with gauge tool & junk basket. Black semi hard chunky residue on tool & line.		
	- Run in with tandem recorders, do gradient stops @ 3230 8441 Kpa 154.1c		
	Sit at 3125m Start 7635 Kpa after 90 minutes 7790 Kpa		
18:30	- Rig up braided line to stroke bailer.		
20:30	- Run in with bailer tagged @ 3230.5m KB. Total 3 runs = 7 litres solids from fine to		
	some 12mm by 25mm pieces 3 to 4mm thick. Appear to be carbonate from white to		
	dark grey in color. Possibly cleaned to 3231.7m		
6:00	- Run #4 on bottom.		
		Norward	5,000
		Wireline	10,770
		Camp	5,500
		Beaver	5,400
		Rentals	5,600
		Rig	9,448
		DAILY COST	60,310
		PREVIOUS	1,524,977
Rig HRS		TOTAL COST	1,585,287

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Clear & cold
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi -3, Lo -12
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Jim Munro/Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	12
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	30-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	01-Oct
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	1,645
OPER. at 0600 HRS:	Monitor pressure Build up	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Run in with Dowell coil tubing (38.1mm), 1.8 m3 water ahead, 10m3 of 15% HCL acid	**Major Costs**	
	pumped acid @ 100 litres/min., running coil in @ 3.0m/min. & @ 3.0 m/min. pulling		
	back to 3147m. Then ran back in to 3242m & pumped @ 100 litres/min. pulling coil @		
	3m/minute.		
11:45	- Displace fluid from well pumping N2. Total fluid = 17.4 m3		
16:30	- Pullout of hole with Coil tubing.		
	- Trace burnable gas to surface @ 17:15.		
18:15	- Shut in well. Montitor pressures.		
6:00	- Tubing pressure = 1,645 Kpa		
		Rentals	6,000
		Dowell	60,000
		Testers	5,000
		Camp	5,500
		Rig	9,448
		DAILY COST	104,104
		PREVIOUS	1,420,873
Rig HRS		TOTAL COST	1,524,977

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Cold
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi -3c, Lo -16c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Icy
TOTAL LOAD FLUID (tl=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard
RECOVERY LAST 24 HOURS		5.4	5.4	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	11
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	29-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	30-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 21:30 HRS:	5,800
OPER. at 0600 HRS:	Run in with Coil tubing	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Monitor pressure build up. Wait on N_2 to arrive via barge.	Major Costs	
15:00	- Rig out Dowell ET unit		
18:00	- Rig up Bonnet's: Install lubricator & pressure test with Inland pressure testing to		
	14.0 Mpa. Held good.		
	- Run in with 91.44mm Gauge ring to 3230m (lost weight) Pull out		
	- Run in with tandem recorders for gradients. Stop @ 3170 = 13,038 Kpa, 3150m =		
	12,820 Kpa, 3100m = 12,309m, 3000 = 11,298 Kpa, 2900m = 10,289 Kpa, 2800m =		
	9,298 Kpa, 2700m = 8,343 Kpa, 2600 = 8,044 Kpa, 2500m = 7,975 Kpa, 2000m =		
	7,655 Kpa, 1500m = 7,326 Kpa, 1000m = 6,985 Kpa, 500m = 6,629 Kpa, surface 6,255		
	- Depths below 3170m not available in field data: Gauges shut down due to temperature		
	Temperature @ 3170m = 153c Fluid level +/- 2670m		
	- Rig out Bonnet.		
3:00	- Rig up Dowell tubing unit, N_2, & fluid pumper.		
5:00	- Held safety meeting. Pressure test coil & lines to 28 Mpa		
6:00	- Bleed off pressure test. Start in hole with coil tubing.		
		Dowell	60,577
		LAND Trans	2,500
		Beaver	4,000
		Wireline	5,000
		Testers	5,000
		Camp	5,500
		Rig	9,448
		DAILY COST	158,662
		PREVIOUS	1,262,211
Rig HRS		TOTAL COST	1,420,873

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Snowing
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi +3, Lo - -5c
CURRENT FLUID IN TANKS (cf)			0.0	ROAD / LEASE	Fair
TOTAL LOAD FLUID (tif=ti-to-cf)		0.0	0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard
RECOVERY LAST 24 HOURS		0.0	0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE		9.3	9.3	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	10
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	28-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	29-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	2105 Kpa
OPER. at 0600 HRS:	Monitor pressure build up	CSG PRESS (kPa) at 0600 HRS:	static

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Spot Dowell equipment. Rig up ETU, BOP & injector.	**Major Costs**	
11:00	- Held safety & procedure meeting with everyone on location.		
	- Pressure test to 35.0 Mpa.		
14:00	- Run in hole endless tubing, pumping N_2 between 10 to 25 scm/min. No fluid returns		
	until 500m then no returns. Pull back to 440m gained fluid returns total 7.0 m^3 @ 900m		
	12.0 m3 @ 1300m, 21.0 m3 @ 1900m, 30.1 m3 @ 2800m, Gas to flare @ 18:00 hrs		
21:30	- Start pump nitrified water 100 litres/min w/ N_2 rates 20 to 40 scm/min H_2S = 0.75%		
23:00	- Stop pumping nitrified water total pumped 9.02 m^3. Coil tubing @ 3255m, total		
	fluid recovered 43.4 m^3. Salinity to 130,000 ppm.		
23:15	- Pull out with coil pumping N_2 @ 20 scm/min. Total water recovered 47.3 m^3		
2:00	- Out of hole with coil. Flow well to testers		
3:00	- Shut In well monitor build ups.		
	03:30 = 205 Kpa, 04:00 = 605 Kpa, 05:00 = 1455 Kpa, 06:00 = 2105 Kpa		
6:00	- Monitor build up wait on N_2.		
		LAND Trans	10,513
		Beaver	5,177
		Wireline	53,562
		Teaters	11,415
		Camp	5,500
		Rig	9,448
		DAILY COST	132,286
		PREVIOUS	1,129,925
Rig HRS		TOTAL COST	1,262,211

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Snow & windy
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi +2, Lo -3
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Fair / slippery
TOTAL LOAD FLUID (tif=ti-to-ct)		39.0	39.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard Bob Seidlitz
RECOVERY LAST 24 HOURS		47.3	47.3	MOBILE	1-600-700-3395
RECOVERED TO DATE		47.3	47.3	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID		-9.3	-9.3	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	9
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	27-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	28-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	Light vaccuum
OPER. at 0600 HRS:	Ready to rig in Dowell	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Stroke bailer run #4 - 2 litres mixed fines, mud, cement pieces.	Major Costs	
	- Stroke bailer run #5 - 2 litres mixed fines, mud, cement pieces.		
	- Run #6 - Sheared off bailer		
	- Run in with overshot, pull out with bailer. 0.5 litre cement pieces, mud		
	- Stroke bailer run #7 - 0.25 litres mixed fines, clear water.		
	- Run wireline impression block. Show impression of equalizer prong.		
	- Run in latch on equalizer prong jar free and retrieve.		
	- Stroke bailer run #8 - 0.25 litres cement pieces & thick mud.		
	- Stroke bailer run #9 - trace mixed fines, mud, cement pieces, clear water.		
	- Run in latch on equalizer prong jar free and retrieve.		
	- Run in latch on plug jar. Sheared off pull out.		
19:00	- Rig up to utilize Bonnet's braided line to pull plug.		
21:00	- Run in hole with pug pulling tool on braided line. Latch onto plug jar several times		
	to free. Pull plug jarring through profiles, got stuck with plug in subsurface safety valve		
	@ 39m KB. Worked plug free, pull out, found centre steel packing ring missing.		
2:30	- RIH with 76mm wire grab to 3140m KB. Pull out with with wireline grab, found nothing.		
	- Rig out Bonnet's wireline truck & moved off location.		
5:00	- Rig out rotary table to accommodate coil tubing BOP.		
6:00	- Ready to rig in Dowell Coil Tubing unit.	Computalog	32,965
		Beaver	6,093
		Rentals	5,150
		Camp	5,500
		Rig	9,448
		DAILY COST	87,982
		PREVIOUS	1,041,943
Rig HRS		TOTAL COST	1,129,925

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Sunny
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi - +16c, Lo +1
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard+H23
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	8
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	26-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	27-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	0
OPER. at 0600 HRS:	RUNNING IN WITH STROKE BAILER	CSG PRESS (kPa) at 0600 HRS:	0

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Install Stream-Flo tubing head.	Major Costs	
10:30	- Pressure test with Inland to 1.4 Mpa & 35.0 Mpa. Held good.		
12:30	- Install ESD on wing valve & rig in Norward Testing.		
15:30	- Fill Norward test line to test unit & pressure test 1.4 Mpa & 35.0 Mpa		
18:00	- Rig up flanged wireline lubricator & pressure test to 21.0 Mpa. Held Good.		
	- Run in hole w/ PX plug retreiving tool to plug @ 3118m. Could not latch on.		
	- Pull out found nothing.		
1:00	- Run impression block. Pulled 120 lbs over to unstick impression block. No marks on		
	face. Wear signs on edges.		
2:30	- Run stroke bailer: Run #1 recovered +/- 2 litres drilling mud. #2 run 0.5 litre mud &		
	LCM (mica) Run #3 sticky drilling mud & LCM		
6:00	- Running in with Stroke Bailer #4 run		
	- Wireline work is wirh Bonnet's slick line.		
		Rentals	5,150
		Pressure Test	15,000
		Thread insp.	17,475
		Construction	5,000
		Camp	5,500
		Rig	9,448
		DAILY COST	93,769
		PREVIOUS	948,174
Rig HRS		TOTAL COST	1,041,943

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Overcast
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi = +10, Lo = -2c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard+H23
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus . Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	7
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	25-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	26-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	INSTALLING TUBING BONNET	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
		Major Costs	
6:00	- Wait on thermal expansion of tubing.		
13:00	- Find neutral tubing weight. Rotate from latch assembly.		
	- Pull 5 joints tubing, install sub surface safety valve. Run in 2 - joints .63 pup, 3.08 pup		
	1- joint, 0.14m pin X pin nipple, NS-CT X NS-CT tubing hanger. Tested all to 40.0 Mpa		
18:00	- Latch into packer & land tubing hanger with latch in neutral weight.		
19:30	- Pressure test annulas to 21.0 Mpa. Held good. Pull 15 daN over on latch.		
	Re-land hanger. Pressure test annulas to 35.0 Mpa. Held good for 15 minutes.		
23:00	Rig out power tongs & hydrotest.		
0:00	- Nipple down BOP stack to install Tubing bonnet.		
6:00	- Install tubing bonnet.		
		Construction	6,000
		Camp	5,500
		Rig	9,448
		DAILY COST	68,589
		PREVIOUS	879,585
Rig HRS		TOTAL COST	948,174

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Cloudy
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	Hi +11c, Lo -0c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perlard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-2829
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	6
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	24-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	25-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	Wait on thermal lengthening of tubing.	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Pick up drift & run in hole with 114.3mm tubing. Total 328 joints + tag joint.	**Major Costs**	
16:30	- Held procedure meeting & rig up to reverse circulate tubing.		
19:00	- Reverse circulate 1 tubing volume.		
	- Pump 100 m^3 premixed inhibited fresh water @ 1% MEP -426		
2:00	- Latch into packer.		
	- Wait on thermal expansion for pipe stretch		
		L.A.N.D.	12,350
		Tubing Spool	20,687
		Tubing	164,550
		Camp	5,500
		Rig	9,448
	Woody Ph: 600-700-2629	DAILY COST	264,366
	Keith 600-700-3395	PREVIOUS	615,219
Rig HRS	120	TOTAL COST	879,585

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Partly sunny
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+13c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (lf=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-2629
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	5
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	23-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	24-Sep
PERFORATIONS:	Open Hole 3147m - 3255m.	TBG PRESS (kPa) at 0600 HRS:	0
OPER. at 0600 HRS:	Running 114.3mm tubing. 185 joints in hole.	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Pressure test BOP (Test Plug installed): 1.4 Mpa low & 35.0 Mpa high: Pipe ram's		
	- Kill line valve, inner & outer relief line valves. Re tighten Blank flange on upper spool.		
	Re-test held good. Test annular preventer to 1.4 mpa & 21mpa held good.		
	- Full ID stabbing valve NS CT tested good. Accumulator check 11,000 Kpa left.		
	Annular 28 sec to close. Pipe rams 6 seconds. Blind rams 6 seconds.		
	- Held safety & procedure meeting with Hallmark, Madison Power tong, Madison Pick up		
	Hydrotesters, & rig crew.		
	- Rig up tongs & related equipment to pick up & run 114.3mm tubing.		
9:45	- Make up anchor seal assembly		
	- Check hanger & tubing spool.		
14:45	- Bull plug seal assembly and pressure test with first joint to 40.0 Mpa.		
	Hallmark Technition thread inspector for all joints. Running 114.3mm NSCT 18.75 kg/m		
	L-80. Drift with teflon drift.		
19:00	- Held safety & procedure meeting as above on shift change.		
	- Continue running tubing.		
6:00	- Running 114.3mm tubing		
		DAILY COST	78,599
		PREVIOUS	615,219
Rig HRS		TOTAL COST	693,818

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Partly cloudy, very windy
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+10c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Dry
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard/Curtis Triomphe
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO.'S) DETAILS, EQUIPMENT CONDITION ETC.

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	4
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	22-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	23-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	PRESSURE TESTING BOP	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Continue nipple down BOP, change out spool to tubing spool: Streamflo on location		
	measured installed & pressure tested primary, secondary seals, & ring to 35,000 Kpa.		
	- Change pipe rams to 114.3mm, install change over spool, BOP & Kill & relief valves		
	as per Class V.		
3:00	- Pressure test BOP (Test Plug installed): 1.4 Mpa low & 35.0 Mpa high: Blind rams,		
	inside kill line valve.		
6:00	- Pressure test BOP (Test Plug installed): 1.4 Mpa low & 35.0 Mpa high:,		
		Wellhead	65,000
		Trucking	25,160
		DAILY COST	152,824
		PREVIOUS	383,726
Rig HRS	72	TOTAL COST	536,550

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Overcast
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+12c light shower
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perisrd/Curtis Triomphe
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/23
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 186
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: 99/09/19 @ 23:59 hrs.
WELL STATUS: POTENTIAL GAS

WEATHER: Overcast | TEMP: 3 °C | FINAL TD: 3383.00 m | FORMATION: Nahanni
Midnight DEPTH: 3254.50 m | PROGRESS: 0.00 m | PBTD: 3254.50 m | FORMATION: Nahanni
8:00 a.m. DEPTH: 3254.50 m | 8:00 a.m. OPERATION: Tearing out fuel tank farm.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 1200 CUMULATIVE COST: $16246699

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	D	R	REMARKS
										0				-										
										0				-										
										0				-										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND %/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
											0.0	0.0		

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	BOP DRILL	
HNDL TOOLS	SAFETY MTG	
RIG SERV	CIRCULATE	
COND MUD	TRIPPING	
SURVEYING	SLIP & CUT	
RUN CSG	LOGGING	
CLN TO BTM	W.O.C.	
REPAIRS	PU/LD PIPE	
DRLG OUT		
W.O.O.	POL PLUG	

TOTAL HOURS:

MUD ADDITIVES

Cal Carb
Ultraseal
Magmafibre
Diaseal
Xanvis
Cal Carb
Drispac
Kelzan
Bicarb
Mica
Sod-Sulph
Defoam sil

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

Loaded out flare tank. Shuttled personnel to and from the air strip and river from the rig camp.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	3
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	21-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	22-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	Nipple down BOP	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Pull out of hole.		
10:00	- Make up stinger wash tool & run in hole on DP.		
15:15	- Run stinger into seal bore circulate out seal bore, 5 minutes. Pull above packer,		
	circulate above packer twice hole annular volume.		
18:15	- Rig up lay Madison Lay down machine & lay down drill pipe, H.wt. & D.C's		
5:00	- Nipple out BOP to install tubing spool & configure BOP for completion.		
6:00	- Continue nipple down.		
		Packer	110,000
		Sub surf. Valv	30,000
		Rig	
NOTE	NEB & DIAND notified 09:00 Sep. 21/99	DAILY COST	186,504
		PREVIOUS	197,292
Rig HRS	48	TOTAL COST	383,796

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Mostly Sunny
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+15c Breeze
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Good
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Perlard/Curtis Triomphe
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE. MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

NEB etc

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/09/22
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 185
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: S8E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: 99/09/19 @ 23:59 hrs.
			WELL STATUS: POTENTIAL GAS
WEATHER: Clear	TEMP: 8 °C	FINAL TD: 3383.00 m	FORMATION: Nahanni
Midnight DEPTH: 3255.00 m	PROGRESS: 0.00 m	PBTD: 3254.50 m	FORMATION: Nahanni
8:00 a.m. DEPTH: 3255.00 m	8:00 a.m. OPERATION: Waiting for barges to move out equipment.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 1700 CUMULATIVE COST: $16245499

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH m		METRES	HOURS ON BIT			BIT		CUTTING STRUCT.					REMARKS	
								IN	OUT		PER HOUR	DRC	RMD	WT daN	RPM	T	B	D	L	B	G	O	R
										0				-								
										0				-								
										0				-								

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	CAKE	GELS 0/10	Tot. Sol kg/m3	Drl. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl mg/L	Ca mg/L	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	ANNULAR VELOCITY DC m/MIN	JET VELOCITY m/sec	HHP
											0.0	0.0		0.00

SURVEYS

	AZIMUTH
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m

TIME BREAKDOWN

DRILLING	BOP DRILL
HNDL TOOLS	SAFETY MTG
RIG SERV	CIRCULATE
COND MUD	TRIPPING
SURVEYING	SLIP & CUT
RUN CSG	LOGGING
CLN TO BTM	W.O.C.
REPAIRS	PU/LD PIPE
DRLG OUT	
W.C.D.	POL PLUG
	TOTAL HOURS:

MUD ADDITIVES

Cal Carb
Ultraseal
Magmafibre
Diaseal
Xanvis
Cal Carb
Drispac
Ke.zan
Bicarb
Mica
Sod-Sulph
Defoam sil

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

Took mud inventory. Made corrections on mud returned. Waited on barge to load out premix tank, surface tank, flare tank, centrifuge and fuel tanks. Total of 10-64m3 will be moved out to Ft. Liard. 8 from the fuel depot at wellsite, 2 from the fuel depot at the barge landing.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

CD 05/97

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	2
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:	Obtain production from the Nahanni & evaluate	DATE OF OPERATIONS:	20-Sep
FORMATION(S):	Nahanni	DATE REPORTED:	21-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	Trip out drill pipe	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Finish make up packer & running tool		
9:00	- Run in hole with packer on drill pipe. Run slow, strap in, fill pipe.		
19:30	- Drop ball & let fall to seat. (For setting packer) center of element @ 3115m		
20:30	- Tie in Inland Pressure testing. Remove subs in top drive for elevators to latch.		
21:30	- Pressure 14.0 Mpa (180 litres) pull 20,000 daN over, hold 5 minutes, bleed off pressure		
	slack off 10,000 daN under, Bleed off DP pressure, pull to neutral. Pressure up to		
	25,000 Kpa to shear ball sleeve.		
	- Rotate DP @ 4,000 ft/lbs, 16 turns with top drive.Released from packer.		
	- Close pipe rams. Pressure wellbore to 14,000 Kpa. OK		
	- Circulate wellbore from mud to fresh filtered water. (Hole volume x 1.5)		
	- Flow check; well static		
5:30	- Pull out of hole with DP.		
		DAILY COST	43,804
		PREVIOUS	153,650
Rig HRS	24	TOTAL COST	197,454

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Mostly Sunny, windy
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+10c
CURRENT FLUID IN TANKS (ct)			0.0	ROAD / LEASE	Fair, Soft spots
TOTAL LOAD FLUID (tif=ti-to-ct)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard/Curtis Triemphe
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 58E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO'S) DETAILS, EQUIPMENT CONDITION ETC.

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/09/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 184
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: 99/09/19 @ 23:59 hrs.
		WELL STATUS: POTENTIAL GAS
WEATHER: Clear, windy	TEMP: 10 °C	FINAL TD: 3383.00 m FORMATION: Nahanni
Midnight DEPTH: 3254.50 m	PROGRESS: 0.00 m	PBTD: 3254.50 m FORMATION: Nahanni
8:00 a.m. DEPTH: 3254.50 m	8:00 a.m. OPERATION: Rig released to production	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 6250 CUMULATIVE COST: $16243799

BHA

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:	TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
										0				–										
										0				–										
										0				–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/l	Ca mg/l	ALKALINITY Mf	Pm	°C IN/OUT
46	1045/1045	10.8	7.1	0.5	11/ 12.0	2.0/3.0	20.90						900	220	0.2	1.4	54/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254			Emsco	152	254			5400	0.0	0.0		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV		CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	6.00
CLN TO BTM		W.O.C.	
REPAIRS		PU/LD PIPE	
DRLG OUT			
W.O.O.		POL PLUG	
		TOTAL HOURS:	8.00

MUD ADDITIVES

Saf Kote
Corinox
Caustic
Starpak
Xanvis
Biocide
Drispac
Kelzan
Bicarb
Mica
Sod-Sulph
Defoam sil

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.20 @ 00:00 Hours:
Logged with Schlumberger. Ran VSIT and Cement Bond log.
Tore out loggers. Rigged to run packer. Production took
er costs as of 1999.09.19 at 00:00 hours, as requested
Keith Hynes.
Tore out Pason to 08:00 hours 1999.09.20.

This is the Final Report from the drilling operation.
Future reports for completion testing, etc. will be
handled directly by Canadian Forest Oil Ltd.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

Sorus Consulting (1995) Ltd.

WELL COMPLETION / WORKOVER REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	REPORT NO.:	1
UNIQUE ID:	Lat. 60° 30' 46.690" Long. 123° 42' 32.512"	AFE NO.:	994515
OBJECTIVE:		DATE OF OPERATIONS:	19-Sep
FORMATION(S):		DATE REPORTED:	20-Sep
PERFORATIONS:	Open Hole 3147m - 3255m	TBG PRESS (kPa) at 0600 HRS:	
OPER. at 0600 HRS:	Making up packer to setting tool	CSG PRESS (kPa) at 0600 HRS:	

REPORT FROM 06:00 TO 06:00

TIME	DETAILED DESCRIPTION OF OPERATIONS	DAILY COST SUMMARY	
		ITEM	AMOUNT
6:00	- Continue runin with casing scraper on drill pipe.		
7:30	- Circulate		
10:00	- Pull out with scraper.		
16:00	- Rig up Schlumberger and run in combination: Bond log 3130 - 2800, 1520m - 5m		
	Ultrasonic casing inspection Log: 3140m - 04m.		
3:00	- Run 210mm gauge ring w/ Schlumberger. Rig out Sclumberger.		
5:30	- Pick up Baker model "DB" Retainer production packer & make up to setting tool to		
	run on drill pipe.		
6:00	- Making up packer to setting tool.		
		Schlumberger	100,000
		Trucking/barg	23,145
		Dowell ETU	8,650
		Testing	4,800
		Filtering	4,255
		Rentals	1,000
		Anchors	
		Wireline	
		Chemical	
		Hot Shot	
		Management	2,500
		Supervision	9,300
		Rig	
		DAILY COST	153,650
		PREVIOUS	0
Rig HRS	COSTS INCLUDE FROM Sept. 07 through 19	TOTAL COST	153,650

FINAL PRODUCTION STRINGS AND BOTTOM HOLE ASSEMBLIES IN POINT FORM

FLUID RECORD (m^3)	OIL	WATER	TOTAL	WEATHER AND ROAD CONDITIONS	
TOTAL FLUID TRUCKED IN (ti)			0.0	WEATHER	Mostly Sunny
TOTAL FLUID TRUCKED OUT (to)			0.0	TEMP. (°C)	+17c
CURRENT FLUID IN TANKS (ci)			0.0	ROAD / LEASE	Soft spots
TOTAL LOAD FLUID (tif=ti-to-ci)			0.0	CONTACTS	
NON-RECOVERABLE FLUID			0.0	SUPERVISOR	Woody Periard/Curtis Triomphe
RECOVERY LAST 24 HOURS			0.0	MOBILE	1-600-700-3395
RECOVERED TO DATE			0.0	CONTRACTOR	Akita 56E
LOAD TO REC FOR NEW FLUID			0.0	REPORT TO	Keith Hynes

BALANCE FLUID VOLUMES ON A DAILY BASIS

REMARKS

IE: MATERIAL AND FLUID TRANSFERS (INCLUDING TRUCKING TICKET NO.'S) DETAILS, EQUIPMENT CONDITION ETC

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61			LOCATION: 300-N61-6040-12330-0		DATE: 99/09/20
U.W.I.: 300-N61-6040-12330-0			CPA NO.: 300N616040123300		DAY: 183
OFFICE SUPERVISOR: Mickey Sutherland				LICENCE NO.: 1863	
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m		SPUD DATE: 99/03/21 @	18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m		RIG RELEASE: @	: hrs.
				WELL STATUS:	
WEATHER: Clear & Windy	TEMP: 12 °C		FINAL TD: 3383.00 m	FORMATION: Nahanni	
Midnight DEPTH: 3254.50 m	PROGRESS: 0.00 m		PBTD: 3254.50 m	FORMATION: Nahanni	
8:00 a.m. DEPTH: 3254.50 m	8:00 a.m. OPERATION: Logging with Schlumberger				

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57877 CUMULATIVE COST: $16237549

BHA

1	Bit	1	Scraper	1	Bit sub	2	Drill collar	1	Jar
1	Drill collar	1	XO sub	9	Heavy weight	318	Drill pipe		Drill pipe

LENGTH: 3144.50 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	METRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT. B	G	D	L	O	R	REMARKS
RR1D	215.9	HW	CF863	J7	11.0	11.0	11.0			0				-		4	1	BT	M3	E	I	NO BHA
										0				-								
										0				-								

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Visc sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/L	Ca mg/L	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
46	1045/1045	10.8	7.1	0.5	11/ 12.0	2.0/3.0	20.90						900	220	0.2	1.4	54/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY DP	ANNULAR VELOCITY DC	JET VELOCITY	JET HHP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	m/MIN	m/MIN	m/sec	
Emsco	152	254	90	1.24	Emsco	152	254			5400	51.8	107.1	72.2	62.88

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	0.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	1.00
COND MUD	2.00	TRIPPING	10.25
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	7.50
CLN TO BTM		W.O.C.	
REPAIRS		PU/LD PIPE	1.50
DRLG OUT			
W.O.O.		POL PLUG	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Saf Kote
Corinox
Caustic
Starpak
Xanvis
Biocide
Drispac
Kelzan
Bicarb
Mica
Sod-Sulph
Defoam sil

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.09.19 @ 00:00 Hours:
Laid down 3 stands of 89mm drill pipe. Made up casing scraper. Ran in hole to 1500mKB. Circulated. Slipped and cut drilling line. Tripped in hole to 2425mKB, broke circulation. Finished in hole with scraper run to 3144.5mKB. Circulated and conditioned mud. Tripped out to log. Laid down casing scraper, bit sub and bit. Rigged to and logged with Schlumberger. Ran VSIT and cement bond log to 24:00 hours 1999.09.19.

SUPERVISOR: G. Shudra/C. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/19
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 182
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 5 °C | FINAL TD: 3383.00 m FORMATION: Nahanni
Midnight DEPTH: 3254.50 m PROGRESS: -25.50 m | PBTD: 3254.50 m FORMATION: Nahanni
8:00 a.m. DEPTH: 3254.50 m 8:00 a.m. OPERATION: Tripping in hole with 244.5 mm scraper

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 185894 CUMULATIVE COST: $16179672

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
4RR3	215.9	Reed	TC1149	EHP53A				3383		0				-									
5RR1	215.9	HW	CF863	J7	11.0	11.0	11.0			0				-		4	1	BT	M3	E	I	NO	BHA
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Src/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/kg	Tot Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/L	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
45	1045/1045	10.8	7.2	0.5	11/ 11.5	2.0/3.0	20.90						900	220	0.2	1.4	54/
	/				/	/											/

CENTRIFUGE: 5 HR IN 1015 kg/m3 OUT 2240 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	90	1.24	Emsco	152	254			5900	51.8	107.1	72.2	62.88

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

DRILLING		BOP DRILL	0.25
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	5.75
COND MUD		TRIPPING	16.75
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	LOST CIRC	
DRLG OUT			
W.O.O.		POL PLUG	0.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Saf Kote	1
Corinox	1
Caustic	
Starpak	
Xanvis	
Biocide	1
Drispac	
Kelzan	
Bicarb	1
Mica	
Sod-Sulph	1
Defcam sil	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted Below.)

99/09/18 at 0000 hours. Finished tripping out of hole looking for washout. No washout found.Tripped in hole with bit to polish plug. Broke circulation @ 1521mKB, 1870 mKB, 2414 mKB, 2988 mKB. Tagged cement bridges at 3240 mKB. Solid cement starting at 3253 mKB. Polished plug down 3254.5 mKB. Circulated and conditioned mud for 5.75 hours. Tripped out of hole for 244.5 mm casing scraper run on 99/09/18 @ 2359 hours.

Note on plug #6:excess cement from plug # 6 channelled through filter cake build up, causing returns to surface to appear premature.

SUPERVISOR: Bill Shudra,C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/09/18
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 181
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast TEMP: 5 °C	FINAL TD: 3383.00 m	FORMATION: Nahanni
Midnight DEPTH: 3280.00 m PROGRESS: -103.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 3280.00 m	8:00 a.m. OPERATION: Tripping in hole with bit and checking for washout	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 45027 CUMULATIVE COST: $15993778

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRC	RMD	DULL WT daN	RPM	CUTTING STRUCT I	O	D	SEAL	B	G	REMARKS OC	R
4RR3	215.9	Read	TC1149	EHP53A				3383		0				-									
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Jan Sol kg/m3	Dmd. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	Pf/Mf	MBT IN/OUT
48	1050/1050	10.8	7.2	0.5	13/ 13.0	2.0/3.0	21.00						900	220	0.2	1.5	52/	
	/				/	/											/	

CENTRIFUGE				SHAKER	DESANDER	DESILTER	TOTAL MUD DUMPED
7 HR IN	1020 kg/m3	OUT	2235 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1	TYPE F-1000				PUMP NO. 2	TYPE F-1000				PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP cm/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	50	0.69	Emsco	152	254			1600	28.8	59.6		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	BOP DRILL	
HNDL TOOLS	SAFETY MTG	0.25
RIG SERV	CIRCULATE	9.25
COND MUD	TRIPPING	2.25
SURVEYING	SLIP & CUT	
RUN CSG	LOGGING	
CLN TO BTM	W.O.C.	11.25
REPAIRS	LOST CIRC	
DRLG OUT	W/N.U. BOP	
W.O.O.	CEMENTING	1.00
	TOTAL HOURS:	24.00

MUD ADDITIVES

Baf Kote	
Corinox	
Caustic	
Starpak	12
Xanvis	4
Cal Carb	
Drispac	4
Kelzan	
Bicarb	2
Mica	1
Cellophane	1
Defoam sil	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

99/09/17 @ 0000 hours. Finished running plug #5. Plug down 99/09/17 @ 0009hours.W.O.C.Felt plug at 3280mKB.Plug lost to formation. Circulated bottoms up. A high viscosity slug was mixed in mud tank by mistake and pumped down hole. The slug stripped the filter cake from the wellbore causing a high density spot in the mud system. Circulated and conditioned mud prior to plug #6. Rigged to and ran plug # 6, 3255 mKB to 3280 mKB, 2 tonnes of Thermal-40 with .7% CFR & .9% CFL-2 & .15% LTR & .5% HTR & 1 sack of cellophane & 1 sack of mica. Plug was down on 99/09/17 @ 1850 hours. Pulled out of plug. Circulated bottoms up. Cement returns were to surface 11.4 m3 before

ERVISOR: Bill Shudra,C.Brazel PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/18
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 181 DEPTH: 3280.00 m PROGRESS: -103.00 m CPA No.: 300N616040123300

WEATHER: Overcast TEMP: 5 °C
8:00 a.m. OPERATION: Tripping in hole with bit and checking for washout

DRILLING & GEOLOGICAL REMARKS (Cont'd)

expected. Rechecked displacement calculations. Calculations indicated that all displacement volumes were correct. Tripped out of hole looking for a washout in the drillpipe string to 24:00 hours 1999.09.17.

REPORTED BY: Bill Shudra, C.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

PLUG BACK AND ABANDONMENT REPORT

WELLNAME:	CDN FOREST ET AL FLETT N-61	DAY NO:	178
LOCATION:	300-N61-6040-12330-0	DATE:	99/09/15

KB Elevation: 610.7
F.T.D.: 3383.0

Plug Back String: 127mm DP & 89 mm DP
Service Company: Sangel
Fluid in Hole: Polymer drilling mud

	HOLE SIZE (mm)	CASING SIZE (mm)	DEPTH (m)	TOP OF CEMENT (m)
SURFACE				
INTERMEDIATE				
PRODUCTION	215.90		3383.00	

	PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5
DATE	99/09/13	99/09/14	99/09/15	99/09/16	99/09/17
INTERVAL (m) Top	3333.00	3290.00	3300.70	3300.00	3280.00
INTERVAL (m) Bottom	3383.00	3328.00	3255.00	3255.00	3255.00
FELT PLUG DEPTH (m)	3328.58	3300.70	3300.30	3280.00	3280.00
FORMATION Name	Nahanni	Nahanni	Nahanni	Nahanni	Nahanni
FORMATION Depth (m)	3142.00	3142.00	3142.00	3142.00	3142.00
AVERAGE CALIP. HOLE SIZE (mm)	222.00	235.00	222.00	222.00	222.00
TYPE OF CEMENT	Thermal 40	Thermal 40	Thermal 40	Thermal 40	Thermal 40
NO. OF TONNES	2.7	2.1	2.5	2.5	2.0
ADDITIVES	Comments	Comments	Comments	Comments	Comments
TRES OF H2O AHEAD	2000.0	2000.0	2000.0	2000.0	2000.0
SPLACEMENT (LITRES) Water	350.0	200.0	180.0	180.0	180.0
SPLACEMENT (LITRES) Mud	28000.	27700.	27460.	27460.	27380.
SLURRY DENSITY (kg/m3)	1885.0	1885.0	1885.0	1885.0	1885.0
MIXING TIME Start	20:15	18:05	19:00	10:55	23:30
MIXING TIME Finish	20:30	18:15	19:16	11:12	23:37
DISPLACING TIMES Start	20:38	18:25	19:26	11:23	23:44
DISPLACING TIMES Finish	21:03	18:48	19:52	11:48	00:09
FELT PLUG TIME	05:45	04:15	04:45	20:30	08:35
FELT PLUG WEIGHT (dAN)	6000.0	8000.0	8000.0	8000.0	8000.0

SURFACE CASING CUT: m BELOW GROUND
SURFACE PLUG: TONNES
PLATE WELDED:
CASING SALVAGE: SHOT OFF AT m
BELOW GROUND: JTS. RECOVERED

REMARKS: Plug additives- .7% CFR & .9% CPL-2 &.15% LTR & .5% HTR
Plug #3 was ran twice. On the first attempt the plugging string got blocked tagging bottom, it was noticed when starting to pump water ahead. Rig circulating equipment was hooked back in and bottoms up circulated prior to running plug 3b. After plug was re-ran the total volume of the plug was lost to formation. 25 m of plug # 4 was lost to formation. Plug #5 was lost to formation.

SUPERVISOR: C Brazel M Rogerson PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

/97

PAJAK ENGINEERING LTD.

PLUG BACK AND ABANDONMENT REPORT

WELL NAME:	CDN FOREST ET AL PLETT N-61	DAY NO:	180
LOCATION:	300-N61-6040-12330-0	DATE:	99/09/17

KB Elevation: 610.7
F.T.D.: 3383.0

Plug Back String: 127 mm DP , 89mm DP
Service Company: Sangel
Fluid in Hole: Polmer drilling mud

	HOLE SIZE (mm)	CASING SIZE (mm)	DEPTH (m)	TOP OF CEMENT (m)
SURFACE				
INTERMEDIATE				
PRODUCTION	215.90		3383.00	

		PLUG # 6	PLUG # 7	PLUG # 8	PLUG # 9	PLUG #10
DATE		99/09/17				
INTERVAL (m)	Top	3255.00				
	Bottom	3280.00				
FELT PLUG DEPTH (m)						
FORMATION	Name	Nahanni				
	Depth (m)	3142.00				
AVERAGE CALIP HOLE SIZE (mm)		222.00				
TYPE OF CEMENT		Thermal 40				
NO. OF TONNES		2.0				
ADDITIVES		Comments				
TRES OF H2O AHEAD		2000.0				
SPLACEMENT (LITRES)	Water	180.0				
	Mud	27380.				
SLURRY DENSITY (kg/m3)		1885.0				
MIXING TIME	Start	18:10	:	:	:	:
	Finish	18:18	:	:	:	:
DISPLACING TIMES	Start	18:22	:	:	:	:
	Finish	18:50	:	:	:	:
FELT PLUG TIME		:	:	:	:	:
FELT PLUG WEIGHT (dAN)		1885.0				

SURFACE CASING CUT: m BELOW GROUND
SURFACE PLUG: TONNES
PLATE WELDED:
CASING SALVAGE: SHOT OFF AT m
BELOW GROUND: JTS. RECOVERED

REMARKS: Plug additives-.7% CFR & .9% CFL-2 & .15% LTR & .5% HTR
Plug # 6 was circulated out due to a wash out in plugging string. This will have to be confirmed with a bit trip to check for cement plug top. The excess cement may have channelled up the hole, got strung out, and showed up at surface earlier than expected. A bit trip will condition the hole and confirm the top of Plug # 6.

SUPERVISOR: C Brazel M Rogerson PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

6/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/17
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 180
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: 3 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3280.00 m | PROGRESS: -103.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3280.00 m | 8:00 a.m. OPERATION: Waiting on cement

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57551 CUMULATIVE COST: $15948751

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	NTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30mm	FC mm	PV/YP	GELS 0/10	Tan Sol kg/m3	Drld Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
47	1045/1045	10.8	7.0	0.5	12/ 12.5	2.0/3.0	20.90						900	200	0.3	1.5	52/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254			Emsco	152	254			1600	0.0	0.0		0.00

SURVEYS

	AZIMUTH		
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m
°	@		m

TIME BREAKDOWN

DRILLING	BOP DRILL	
HNDL TOOLS	SAFETY MTG	
RIG SERV	CIRCULATE	6.75
COND MUD	TRIPPING	1.75
SURVEYING	SLIP & CUT	
RUN CSG	LOGGING	
CLN TO BTM	W.O.C.	14.25
REPAIRS	LOST CIRC	
DRLG OUT	W/N.U. BOP	
W.O.O.	CEMENTING	1.25
	TOTAL HOURS:	24.00

MUD ADDITIVES

Saf Kote	
Corinox	
Caustic	
Starpak	24
Xanvis	8
Cal Carb	28
Drispac	8
Kelzan	
Biocide	1
Walnut	
Sod-Sulph	1
Defoam sil	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.16 @ 00:00 Hours:
Circulated in casing. Waited on cement. Tripped in hole to 3283mKB, attempting to feel top of plug at 3255mKB. No feel. Tripped back out to 3253mKB. Circulated bottoms up to check for cement contamination. None noted. Tripped in to 3300mKB. No plug felt until 3300mKB which was top of plug #2. Circulated bottoms up to check for cement plug returns. No cement returns. All indications that plug #3B has leaked off into formation at 3000.7-3000.0mKB. Rigged to and cemented plug #4, 3255-3300mKB with 2.53 tonnes of Thermal 40, .7% CFR + .9% CFL-2 + .15% LTR + .5% HTR. Plug down 1999.09.16 @ 11:48 hours. Tripped out to 3251mKB. Circulated

SUPERVISOR: B. Shudra/C. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/17
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 180 DEPTH: 3280.00 m PROGRESS: -103.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 3 °C
8:00 a.m. OPERATION: Waiting on cement

DRILLING & GEOLOGICAL REMARKS (Cont'd)

bottoms up. Recovered .5m3 of cement contaminated mud. Tripped into casing. Circulated and waited on cement. Tripped in hole to 3280mKB. Felt plug #4 solid at 3280mKB with 8000 daN. Circulated bottoms up. Rigged to and ran plug #5, 3255-3280mKB with 2.05 tonnes of Thermal 40, .7% CFR + .9% CFL-2 + .15% LTR + .5% HTR. Ran plug #5 to 24:00 hours 1999.09.16.

REPORTED BY: B. Shudra/C. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/16
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 179
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3383.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3300.70 m 8:00 a.m. OPERATION: W.O.C.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 51359 CUMULATIVE COST: $15891200

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE (mm)	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RRWD	WT	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity s/L	DENSITY IN/OUT kg/m3	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	T.L. Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
43	1045/1045	10.0	7.1	0.5	10/ 9.0	2.0/2.5	20.90						900	200	0.2	1.1	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	57	0.79	Emsco	152	254			1600	33.0	68.2		0.00

SURVEYS

	AZIMUTH
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV		CIRCULATE	4.75
COND MUD		TRIPPING	1.00
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	7.75
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
W.O.O.	7.50	CEMENTING	2.75
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	
Ultraseal	
Caustic	
Starpak	9
Xanvis	2
Cal Carb	
Drispac	3
Kelzan	
Biocide	4
Walnut	
Sod-Sulph	
Defoam sil	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be listed below.)

1999.09.15 @ 00:00 Hours:
Circulated and waited on cement. Tripped in and tagged plug @ 3300.7mKB with 8000 daN. Circulated for .5 hours. Tripped up into casing. Circulated and waited on orders. Tripped in hole to 3300mKB. Rigged to and batch mixed plug #3A. Attempted to pump water ahead for plug #3A. Drill pipe pressured up to 14 MPa and plugged string. Circulated blockage in string free and circulated for 4.25 hours. Screen out loss circulation material. Rigged to and ran plug #3B, 3255mKB to 3300.2mKB with 2.53 tonnes of Thermal 40 .7% CFR + .9% CFL-2 + .15% LTR + .5% HTR. Density 1885 kg/m3. Plug down 1999.09.15 @ 19:52 hours. Tripped out of

SUPERVISOR: M.Rogerson/C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 94/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/16
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 179 DEPTH: 3383.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 5 °C
6:00 a.m. OPERATION: W.O.C.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

plug to 3253mKB. Circulated bottoms up for 1.5 hours. Tripped into casing, circulated and waited on cement to 24:00 hours 1999.09.15.

Note #1: Screened out loss circulation material from mud system.
#2: Plug #3A was identical to plug #3B. Plug #3A was batch mixed and when the drill string was pressured up, the plug was not used. This was due to delay in time from mixing to plug set up which would not have allowed adequate time to displace plug #3A. The plug was put in the remote sump.

REPORTED BY: M.Rogerson/C.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/09/15
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 178
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3383.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3300.70 m	8:00 a.m. OPERATION: Wait on orders.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 44651 CUMULATIVE COST: $15839841

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	1	2	3	4	5	6	7	8
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

MUD

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/L	Ca mg/L	ALKALINITY MF	ALKALINITY MFO	°C IN/OUT
41	1045/1045	10.5	7.8	0.5	10/ 9.5	2.0/2.5	30.00						900	180	0.2	1.2	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emaco	152	254	60	0.83	Emsco	152	254			1600	34.7	71.7		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	1.50
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	9.50
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
W.O.O.	9.50	CEMENTING	2.75
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	
Ultraseal	
Caustic	
Starpak	7
Xanvis	4
Cal Carb	133
Drispac	
Kelzan	
Saf Kote	
Walnut	
Sod-Sulph	
Defoam sil	

MUD COMMENTS: Polymer - 1.8, Sulfite - 58.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted Below.)

1999.09.14 @ 00:00 Hours:

WOC. Ran in and tagged plug #1 at 3328.58mKB with 6000 daN. Waited on orders. Held prejob safety meeting. Ran plug #2, 3290-3328.52mKB with 2.13 tonnes Thermal 40 + 0.7% CFR + 0.9% CFL-2 +1.5% LTR +0.5% HTR (1.6m3 slurry at 1848 kg/m3). Plug in place at 18:48 hours 1999.09.14. Pulled out to 3288mKB. Circulated. Flow checked. Pulled out to intermediate casing. Rig serviced. Circulated and waited on cement to 24:00 hours 1999.09.14.

Note: Plug #2 felt at 3300.7mKB at 04:15 hours 1999.09.15.

SUPERVISOR: M.Rogerson/C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

PLUG BACK AND ABANDONMENT REPORT

WELLNAME:	CDN FOREST ET AL FLETT N-61	DAY NO:	176
LOCATION:	300-N61-6040-12330-0	DATE:	99/09/13

KB Elevation: 610.7
F.T.D.: 3383.0

Plug Back String: 127mm DP & 89 mm DP
Service Company: Sangel
Fluid in Hole: Polymer drilling mud

	HOLE SIZE (mm)	CASING SIZE (mm)	DEPTH (m)	TOP OF CEMENT (m)
SURFACE				
INTERMEDIATE				
PRODUCTION	215.90		3383.00	

		PLUG # 1	PLUG # 2	PLUG # 3	PLUG # 4	PLUG # 5
DATE		99/09/13				
INTERVAL (m)	Top	3333.00				
	Bottom	3383.00				
FELT PLUG DEPTH (m)		3328.58				
FORMATION	Name	Nahanni				
	Depth (m)	3142.00				
AVERAGE CALIP. HOLE SIZE (mm)		222.00				
TYPE OF CEMENT		Thermal				
NO. OF TONNES		2.7				
ADDITIVES		comments				
LITRES OF H2O AHEAD		2000.0				
DISPLACEMENT (LITRES)	Water	350.0				
	Mud	28000.				
SLURRY DENSITY (kg/m3)		1885.0				
MIXING TIME	Start	20:15	:	:	:	:
	Finish	20:30	:	:	:	:
DISPLACING TIMES	Start	20:38	:	:	:	:
	Finish	21:03	:	:	:	:
FELT PLUG TIME		05:45	:	:	:	:
FELT PLUG WEIGHT (dAN)		6000.0				

SURFACE CASING CUT: m BELOW GROUND
SURFACE PLUG: TONNES
PLATE WELDED:
CASING SALVAGE: SHOT OFF AT m
BELOW GROUND: JTS. RECOVERED

REMARKS: Additives .7% CFR & .9% CFL-2 & .15% LTR & 15% HTR

SUPERVISOR: C Brazel M Rogerson PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/09/14
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 177
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 7 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 3383.00 m	PROGRESS: 0.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 3328.58 m	8:00 a.m. OPERATION: Waiting on orders.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 47600 CUMULATIVE COST: $15795190

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: NC90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	NO	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
45	1045/1045	10.0	7.8	0.5	11/ 9.0	2.0/2.5	30.00						850	160	0.3	1.3	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254			Emsco	152	254	80	1.11	2000	46.4	95.9		0.00

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	0.25
HNDL TOOLS	1.50	SAFETY MTG	0.25
RIG SERV	0.25	CIRCULATE	
COND MUD	13.50	TRIPPING	3.75
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	2.00	LOST CIRC	
DRLG OUT		W/N.U. BOP	
W.O.O.		CEMENTING	1.75
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	
Ultraseal	
Caustic	3
Starpak	5
Xanvis	6
Cal Carb	15
Drispac	
Kelzan	
Saf Kote	
Walnut	
Sod-Sulph	
Defoam sil	2

MUD COMMENTS: Polymer - 2.0, Sulfite - 64.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.13@ 00:00 Hours.Rigged to and picked up 10 joints 89 mm drillpipe,ran it in on 127mm drillpipe, with flow checks, to 3383mKB. Tagged bottom. Slipped and cut drilling line. Circulated and conditioned mud to cement. Held H2S drill. Held safety meeting. Rigged to cement. Mixed and pumped plug #1, 3333-3383mKB,with 2.66 tonnes Thermal 40 with 0.70% CFR, 0.9% CFL-2, 1.5 % LTR, 0.5% HTR. Density 1885kg/m3. Plug in place @ 21:03 hours 1999.09.13. Slowly pulled out of plug. Positioned drillpipe bottom at 3226mKB. Circulated bottoms up. Hoisted drillpipe up into intermediate casing. Circulated to 24:00 hours 1999.09.13.

SUPERVISOR: M.Rogerson C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD v6/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/14
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 177 DEPTH: 3383.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 7 °C
8:00 a.m. OPERATION: Waiting on orders.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note(1) Losses minimal after cement plug #1 in place.
Note(2) No cement returns to surface when circulating bottoms up at 3326mKB.
Note(3) UPDATE: 1999.09.14 @ 05:30 hours . Tagged cement plug #1 top at 3228.58mKB. Plug #1 felt with 6,000 daN using drillpipe string weight.

REPORTED BY: M.Rogerson C.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 08/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/09/13
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 176
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 7 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3383.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3383.00 m	8:00 a.m. OPERATION: Circulate on bottom & condition hole for plug #1 (3383-3333)	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 252640 CUMULATIVE COST: $15747590

BHA

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	2	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
RR3D	215.9	Reed	TC1149	EHP53A				3383		0				-									

MUD

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MUD	MFO	°C IN/OUT
45	1040/1040	10.0	7.4	0.5	18/ 11.0	3.0/4.0	30.00						900	160	0.3	1.2	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254			Emsco	152	254				0.0	0.0		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	3.00	SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	15.75
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
W.O.O.	4.50	SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	
Ultraseal	
Caustic	
Starpak	5
Xanvis	3
Cal Carb	56
Drispac	3
Kelzan	
Saf Kote	
Walnut	
Sod-Sulph	
Defoam sil	

MUD COMMENTS: Polymer - 1.4, Sulfite - 64.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.09.12 @ 00:00 Hours:
Changed out logging tool. Ran in with EMI tool. Logged 3383-3147mKB. Hoisted. Ran in with STI, MDA, SPED, CNT, GR, Cal tool. Logged 3383-3147mKB. Waited for VSP tool. Ran in with VSP tool. Pulled out and repaired tool. Ran in and logged 2 shots. Hoisted. Rigged out loggers. Rig serviced. Waited on orders. Ran in drill collars and laid them down. Rig serviced to 24:00 hours 1999.09.12.

Note #1: Drill pipe string in hole for plugs has 10 joints 89mm drill pipe on bottom.

#2: Hole taking 1.5m3 of mud per hour.

SUPERVISOR: M.Rogerson/C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/12
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 175
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 3 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3383.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3383.00 m 8:00 a.m. OPERATION: Waiting on logging tools. ETA 0800 hr. @ AMOCO airstrip.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 50866 CUMULATIVE COST: $15494950

BHA

1 Bit	1 Bit sub	1 Drill collar	1 Shock sub	2 Drill collar
1 Drlg jar	12 Drill Collar	1 XO sub	9 HWDP	

LENGTH: 236.56 m WT. BELOW JARS: 5000 daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: 12 STRING WT.: 129000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTINGS STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	1	No	BHA
RR3D	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
50	1035/1040	10.0	7.0	0.5	18/ 12.0	3.0/4.0	30.00						900	160	0.3	1.4	38/
	/				/	/											/

CENTRIFUGES HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	87	1.20	Emsco	152	254			3850	50.1	103.6		0.00

SURVEYS

		AZIMUTH
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	3.25	TRIPPING	11.75
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	8.75
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
MANIFOLD		SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	
Ultraseal	
Caustic	2
Starpak	9
Xanvis	3
Cal Carb	45
Drispac	2
Kelzan	
Saf Kote	
Walnut	
Sod-Sulph	
Defoam sil	

MUD COMMENTS: Polymer - 1.8, Sulfite - 64.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/09/11@ 00:00 hrs:Logged with Computalog: STI, MDA, SPED, CNT,GR & cal.Tools not working.Changed out some tools.Logged from 3350-3147mKB.Rig serviced.Flow checked.Ran in hole. Broke circulation @ 1000,2000,3347mKB.Cleaned out bridge at 3353mKB.Circulated and conditioned mud.Flow checked.Hoisted out to log. Rigged up Computalog. Ran in with logs. Logging tools not working. Hoisted out to inspect, trouble shoot tools to 24:00 hours 1999.09.11.
Note: Losing 1.0-1.3 m3 per hour of mud to hole.

SUPERVISOR: M.Rogerson C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/11
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 174
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Cloudy, fog. TEMP: 4 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3383.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3383.00 m 8:00 a.m. OPERATION: Running in to clean out bridge at 3358 mKB.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60542 CUMULATIVE COST: $15444084

BHA

1 Bit	1 Bit sub	1 Drill collar	1 Shock sub	2 Drill collar
1 Drlg jar	12 Drill Collar	1 XO sub	9 HWDP	

LENGTH: 236.56 m WT. BELOW JARS: 5000 daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: 12 STRING WT.: 129000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHPS3A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
RR3D	215.9	Reed	TC1149	EHPS3A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MEO	°C IN/OUT
52	1030/1040	10.0	7.0	0.5	17/ 11.5	3.0/3.5	30.00						900	160	0.6	1.1	40/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254			Emsco	152	254	90	1.24	3500	51.8	107.1		0.00

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	10.00
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	6.00
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	7.50
DRLG OUT		W/N.U. BOP	
MANIFOLD		SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	20
Ultraseal	10
Caustic	3
Starpak	18
Xanvis	7
Cal Carb	198
Drispac	6
Kelzan	
Saf Kote	
Walnut	15
Sod-Sulph	
Defoam sil	

MUD COMMENTS: Polymer - 1.8, Sulfite - 76.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.10 @00:00 Hours.Circulated and conditioned mud. Spotted pill on bottom. Hoisted pipe bottom to 3124mKB. Monitored hole for losses. Circulated and conditioned mud for 1 hour. Ran in hole to 3383mKB. Flow checked. Hoisted out of hole to log. Rigged up Computalog and attempted to log. Hole taking mud at 1.2-1.5m3 per hour. Log #1, - STI, MDA, SPED, CNT, Gr, Cal., Hole bridged at 3358mKB.Log tools quit working.Suspect bad line.Pulled out. Cut off 1200 m.Ran in with same logs.Tools still not working on bottom.Attempt to trouble shoot problems to 24:00 hours 1999.09.10.

SUPERVISOR: M.Rogerson C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/09/10
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 173
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Rain	TEMP: 5 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 3383.00 m	PROGRESS: 0.00 m	PBTD: m	FORMATION:
6:00 a.m. DEPTH: 3383.00 m	6:00 a.m. OPERATION: Pill soaking on bottom, monitoring losses at shoe.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 63030 CUMULATIVE COST: $15383542

BHA

1	Bit	1	Bit sub	1	Drill collar	1	Shock sub	2	Drill collar
1	Drlg jar	12	Drill Collar	1	XO sub	9	HWDP		

LENGTH: 236.56 m WT. BELOW JARS: 5000 daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN ROTARY RPM: 12 STRING WT.: 129000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	METRS	METRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MPO	°C IN/OUT
45	1030/1040	10.0	7.8	0.5	20/ 9.0	2.0/3.0	30.00						1000	160	0.3	1.3	38/ 40
	/				/	/											/

CENTRIFUGE		DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
0 HR IN kg/m3	OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	87	1.20	Emsco	152	254			2750	50.1	103.6		0.00

SURVEYS

			AZIMUTH
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	7.25
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	15.50
DRLG OUT		W/N.U. BOP	
MANIFOLD		SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	60
Ultraseal	35
Caustic	2
Starpak	13
Xanvis	
Cal Carb	266
Drispac	6
Kelzan	
Saf Kote	
Walnut	60
Sod-Sulph	
Defoam xl	

MUD COMMENTS: Polymer - 2.0, Sulfite - 77.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.09 @ 00:00 Hours:
Ran in hole with open jets, filled pipe at 1000, 2000 and 3136mKB. Slipped and cut drilling line. Flow checked. Rig serviced. Mixed LCM pills and displaced same. Monitored hole. Pulled to 3182mKB. Circulated and monitored hole. Pulled into casing. Circulated and monitored hole. Ran in hole. Washed to bottom. No fill. Circulated and conditioned mud to 24:00 hours 1999.09.09.
Note #1: Pill #1, 93 kg/m3 LCM, 9.6m3. Pill #2, 142 kg/m3 LCM, 9.6m3. Pill #3, 190 kg/m3 LCM, 9.6m3.
#2: Loss rate @ 24:00 hours, 2m3 per hour while circulating at 87 stk/minute.

SUPERVISOR: M.Rogerson/C.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/09
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 172
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 8 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3383.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3383.00 m | 8:00 a.m. OPERATION: Running in hole with jetless bit (slick string).

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 104622 | CUMULATIVE COST: $15320512

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar	12	Drill Collar
1	XO sub	9	HWDP						

LENGTH: 249.21 m | WT. BELOW JARS: 7000 daN | JAR HRS: 101.8 | JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 0 daN | ROTARY RPM: 12 | STRING WT.: 129000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 178 | THREAD: H90 | NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		WT		CUTTING STRUCT.						REMARKS	
								IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380	3383	3	2.4	1.25		9-	60	1	1	WT	A	E	I	No	BHA
4DRR	215.9	Reed	TC1149	EHP53A				3383		0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl rpm	Ca PPM	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
70	1030/1040	9.5	5.4	0.5	23/ 17.0	4.0/4.5	30.00						1000	160	0.2	1.2	38/ 40
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
0 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	50	0.69	Emsco	152	254			3800	28.8	59.6		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	7.75
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	14.50
DRLG OUT		W/N.U. BOP	
MANIFOLD		SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	13
Ultraseal	8
Caustic	1
Starpak	49
Xanvis	4
Cal Carb	476
Drispac	27
Kelzan	
Saf Kote	
Walnut	80
Sod-Sulph	
Defoam xl	1

MUD COMMENTS: Polymer - 3.2, Sulfite - 90.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.08 @ 00:00 Hours:
Lost 8m3 per hour to well. Mixed mud to density of 1040 kg/m3 and kept annulus full. Mixed 2-8m3 pills and spotted [illegible]me. Ran short of LCM that can be put through MWD tools. [illegible]ditional materials arrived at 15:00 hours. Hoisted out of [illegible]ole to lay down MWD tools, monel, 3 pt. and remove nozzles from bit. Lost approximately 8m3 per hour while tripping, kept annulus full with 1040 kg/m3 mud. Tripped out to 24:00 hours 1999.09.08.

SUPERVISOR: M.Rogerson/C.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300
DATE: 99/09/08
DAY: 171
OFFICE SUPERVISOR: Mickey Sutherland
LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E
KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 2 °C
Midnight DEPTH: 3383.00 m PROGRESS: 3.00 m
8:00 a.m. DEPTH: 3383.00 m 8:00 a.m. OPERATION: Mix LCM to heal thief zone.
FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 118365 CUMULATIVE COST: $15215890

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar	12	Drill Collar
1	XO sub	9	HWDP						

LENGTH: 249.21 m WT. BELOW JARS: 7000 daN JAR HRS: 101.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2535.9

WT. ON BIT: 9000 daN ROTARY RPM: 60 STRING WT.: 129000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	O	R	REMARKS
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR	
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380		3	2.4	1.25		9-	60									
										0				-										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
68	1030/1040	9.5	5.4	0.5	23/ 14.5	4.0/4.5	20.60						1000	160	0.4	1.3	40/ 44
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	90	1.24	Emsco	152	254			7300	51.8	107.1	96.8	111.94

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING	1.25	BOP DRILL	
HNDL TOOLS	1.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	16.00	TRIPPING	5.25
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
MANIFOLD		SAND TRAP	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Mica	106
Ultraseal	63
Caustic	1
Starpak	36
Xanvis	23
Cal Carb	358
Drispac	31
Kelzan	
Saf Kote	
Corinox	
Sod-Sulph	
Defoam xl	5

MUD COMMENTS: Polymer - 2.8, Sulfite - 70.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.09.07 @ 00:00 Hours:

Tripped bit #2D. Function tested blind rams when out of hole. Changed bit, laid down monel (Ser #15078). Tripped in with bit #3D. Tested MWD tool at 304mKB, 1022mKB and 1512mKB then tripping resumed, formation started taking mud with no signs of flow at surface. Tested MWD at 2184mKB, took 10m3 to break circulation. Tested MWD at 3148mKB, took 6m3 to break circulation. Tested MWD at 3370mKB, took 12m3 to break circulation. Broke circulation and washed to bottom with no fill. Broke in bit #3D and drilled 215.9mm hole to 3383mKB. Flow checked. Found mud loss to formation. Circulated. Built volume. Mixed LCM and pumped at a reduced

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/08
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 171 DEPTH: 3383.00 m PROGRESS: 3.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 2 °C
8:00 a.m. OPERATION: Mix LCM to heal thief zone.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

pump rate. Lost +/- 25m3 to formation. Used the procedure of letting annulus level drop 5 minutes, then filling and monitoring. Original mud to fill +/- 3m3, this slowed to 2m3 per fill up. A 5.8m3 LCM slug was spotted with 2m3 in annulus and 3.8m3 in the pipe. With the same procedure as before, 1st fill - 1m3, 2nd fill - 1.3m3, 3rd fill - 1.4m3. Well was top filled taking +/- 1.8m3 per fill while slug #2 was being mixed up. Mixed volume and LCM to 24:00 hours 1999.09.07.

Note: Total estimated mud volume lost to formation, approximately +/- 150m3 for 1999.09.07.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/09/07
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 170
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: High Cloud	TEMP: 4 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 3380.00 m	PROGRESS: 27.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 3380.00 m	8:00 a.m. OPERATION: Break in bit #3D and drill 215.9mm hole.		

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 50948 **CUMULATIVE COST:** $15097525

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	Monel	1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar
12	Drill Collar	1	XO sub	9	HWDP				

LENGTH: 258.41 m WT. BELOW JARS: 7000 daN JAR HRS: 100.5 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2534.7

WT. ON BIT: 9000 daN ROTARY RPM: 60 STRING WT.: 130000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMG	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147	3380	233	2.3	100.50		8-10	60	4	4	WT	A	3	I	CT	PR
3D	215.9	REED	TC1149	EHP53A	9.5	9.5	9.5	3380		-338				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
53	1058/1053	10.5	6.8	0.5	20/ 12.0	3.0/4.0	42.12		5.265				1200	60	0.6	1.6	54/ 58
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	OC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	90	1.24	Emsco	152	254			9400	51.8	107.1	96.8	114.21

SURVEYS

		AZIMUTH
1.50 °	@ 3351.20 m	83.90
1.60 °	@ 3360.80 m	84.90
1.50 °	@ 3370.90 m	83.20
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	14.75	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	1.25
COND MUD		TRIPPING	5.75
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
MANIFOLD	0.50	SAND TRAP	0.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	2
Caustic	1
Starpak	
Xanvis	2
Cal Carb	67
Drispac	5
Kelzan	
Saf Kote	2
Corinox	1
Sod-Sulph	1
Defoam xl	2

MUD COMMENTS: Polymer - 1.8, Sulfite - 172

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.06 @ 00:00 Hours: Drilled 215.9mm hole to 3380mKB, surveyed and rig serviced as required. Circulated bottom hole sample. Flow checked well, static. Tripped bit #2D. Flow checked as required. Conducted BOP drill in trip mode, well secured in 90 seconds. Blew manifold and flare lines with air before temperature drops below freezing. Hole good on trip out. Tripped out of hole to 24:00 hours 1999.09.06.

#1: Hole Drag: 14,000 daN up, 14,000 daN down.
#2: Torque: 11,500-12,500 Nm.
#3: Bottom Hole Temperature MWD - 84 degrees C.
#4: Control drilled to hold deviation.
#5: Hole fill: Act: 24.9m3, Calc: 18.04m3, Diff: 6.86m3.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

6

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/09/06
DAY: 169
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Light drizzle TEMP: 8 °C
Midnight DEPTH: 3353.00 m PROGRESS: 52.00 m
8:00 a.m. DEPTH: 3367.00 m 8:00 a.m. OPERATION: Control drilling 215.9mm hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 52370 CUMULATIVE COST: $15046577

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	Monel	1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar
12	Drill Collar	1	XO sub	9	HWDP				

LENGTH: 258.41 m WT. BELOW JARS: 7000 daN JAR HRS: 85.8 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2520.0

WT. ON BIT: 9000 daN ROTARY RPM: 60 STRING WT.: 129000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147		206	2.4	85.75		8-10	60								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFD	°C IN/OUT
54	1048/1050	10.5	6.4	1.0	19/ 13.0	3.0/4.0	36.75		2.620				1200	80	0.6	1.7	54/ 58
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	90	1.24	Emsco	152	254			9400	51.8	107.1	96.8	113.45

SURVEYS

		AZIMUTH
1.70°	@ 3293.00 m	65.70
1.60°	@ 3302.20 m	64.60
1.50°	@ 3312.80 m	66.80
1.40°	@ 3322.50 m	72.10
1.40°	@ 3332.20 m	75.40
1.50°	@ 3342.00 m	81.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
SAND TRAP		FLOW CHECK	0.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	1
Caustic	1
Starpak	
Xanvis	4
Cal Carb	
Drispac	10
Kelzan	
Saf Kote	
Corinox	2
Sod-Sulph	2
Defoam xl	2

MUD COMMENTS: Polymer - 2, Sulfite - 180

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.05 @ 00:00 Hours:
Drilled 215.9mm hole to 3353mKB, surveyed and rig serviced as required to 24:00 hours 1999.09.05.
#1: Hole Drag: 12,000 daN up, 11,000 daN down.
#2: Torque: 10,500-12,000 Nm.
#3: Bottom Hole Temperature MWD - 84 degrees C
#4: Control drilled to hold deviation.
#5: Survey: 3351.2m, 1.5 degrees, AZM - 83.9 (9 daN/60 RPM)
#6: Hole volume slowly decreased, approximately 4m3 after drilling breaks were encountered from 3305-3310mKB. Wellbore seemed to heal itself with no additional signs of mud losses.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300
DATE: 99/09/05
DAY: 168
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E
KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:
WEATHER: Clear TEMP: 2.5 °C
FINAL TD: m FORMATION:
Midnight DEPTH: 3301.00 m PROGRESS: 39.00 m
PBTD: m FORMATION:
8:00 a.m. DEPTH: 3322.00 m 8:00 a.m. OPERATION: Control drilling 215.9 mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 48425 CUMULATIVE COST: $14994207

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	Monel	1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar
12	Drill Collar	1	XO sub	9	HWDP				

LENGTH: 258.41 m WT. BELOW JARS: 7000 daN JAR HRS: 64.0 JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2498.3

WT. ON BIT: 8000 daN ROTARY RPM: 60 STRING WT.: 126000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147		154	2.4	64.00		7-8	55								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
49	1048/1050	10.5	7.0	1.0	18/ 11.5	2.0/3.0	41.92		2.620				1100	100	0.5	1.5	53/ 56
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	JHP
Emsco.	152	254	90	1.24	Emsco	152	254			8800	51.8	107.1	96.8	113.45

SURVEYS

			AZIMUTH
2.10	@	3254.20 m	63.20
2.00	@	3264.30 m	65.20
1.90	@	3274.00 m	70.20
1.80	@	3283.70 m	67.90
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
SAND TRAP	0.25	FLOW CHECK	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	2
Caustic	1
Starpak	
Desco	
Cal Carb	
Drispac	5
Kelzan	2
Saf Kote	
Corinox	2
Sod-Sulph	2
Barite	

MUD COMMENTS: Polymer - 1.8, Sulfite - 166. Cleaned out sand trap 5 m3.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/09/04 00:00 hours.Drilled 215.9 mm hole,with rig services and surveys as required, from 3262-3301 mKB at 24:00 hours 1999.09.04.

* Hole drag - 11,000 daN up,12,000 daN down.
* Torque -10,500 NM -11,600 NM.
* Bottom hole temperature MWD - 82 degrees.
* Hole conditions good with no apparent losses.
* Control drilled to hold deviation.
* Survey :3293.0 m,1.7 degrees,azm-65.7,(8000daN,60 RPM)
  :3302.2 m,1.6 degrees,azm-64.6,(9000daN,60 RPM)

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/04
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 167
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 10 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3262.00 m | PROGRESS: 67.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3273.00 m | 8:00 a.m. OPERATION: Control drilling 215.9 mm hole.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 53551 | CUMULATIVE COST: $14945782

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	Monel	1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar
12	Drill Collar	1	XO sub	9	HWDP				

LENGTH: 258.41 m | WT. BELOW JARS: 7000 daN | JAR HRS: 41.8 | JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2476.1

WT. ON BIT: 9000 daN | ROTARY RPM: 60 | STRING WT.: 125000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 178 | THREAD: H90 | NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	L60661	F3R	9.5	9.5	9.5	3147		115	2.8	41.75		8-14	45								
										0				-									
										0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpf	Mf	°C IN/OUT
50	1040/1048	11.0	6.2	1.0	18/ 12.0	2.0/3.0	62.88		0.250				1000	160	0.5	1.2	51/ 55
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	NHP
Emsco.	152	254	90	1.24	Emsco	152	254			8600	51.8	107.1	96.8	112.91

SURVEYS

			AZIMUTH
0.80	@	3196.70 m	323.10
0.70	@	3206.00 m	319.90
0.50	@	3215.90 m	333.20
0.40	@	3225.70 m	13.90
0.70	@	3235.40 m	43.10
1.40	@	3244.90 m	56.60
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
SAND TRAP	0.25	FLOW CHECK	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	1
Caustic	2
Starpak	
Desco	
Cal Carb	
Drispac	10
Kelzan	4
Saf Kote	1
Corinox	1
Sod-Sulph	1
Barite	

MUD COMMENTS: Polymer - 2.1, Sulfite - 180

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/09/03 00:00 hours. Drilled 215.9 mm hole from 3195mKB to 3262mKB, with rig services and surveys as required, to 24:00 hours 1999.09.03.

* Hole drag - 10,000 daN up,10,000 daN down.
* Torque -10,500 NM -11,000 NM.
* Bottom hole temperature MWD - 80 degrees C.
* Hole conditions good with no apparent losses.
* Varied WOB and RPM to control deviation.
* Survey : 3254.2 m, 2.1 degrees, azm - 63.2
* Survey : 3264.3 m, 2.0 degrees, azm - 65.7

SUPERVISOR: M.Rogerson D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 86/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/03
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 166
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: High cloud | TEMP: 4 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3195.00 m | PROGRESS: 45.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3219.00 m | 8:00 a.m. OPERATION: Drilling 215.9mm hole

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 70692 | CUMULATIVE COST: $14892231

BHA

1	Bit	1	Bit sub	1	Monel	1	Trans sub	1	X/O sub
1	Monel	1	3 PT reamer	1	Shock sub	3	Drill collar	1	Drlg jar
12	Drill Collar	1	XO sub	9	HWDP				

LENGTH: 258.41 m | WT. BELOW JARS: 7000 daN | JAR HRS: 20.0 | JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2454.4

WT. ON BIT: 12000 daN | ROTARY RPM: 40 | STRING WT.: 124000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 178 | THREAD: H90 | NO. IN HOLE: 17

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2D	215.9	Smith	LG0661	F3R	9.5	9.5	9.5	3147		48	2.4	20.00		8-12	40								
										0				-									
										0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MFO	°C IN/OUT
44	1040/1040	10.5	6.2	1.0	12/ 8.0	2.0/3.0			0.728				900	180	0.5	1.2	/ 50
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	90	1.24	Emsco	152	254			8500	51.8	107.1	96.8	112.48

SURVEYS

		AZIMUTH
0.90 °	@ 3152.00 m	337.70
0.80 °	@ 3159.50 m	326.30
0.70 °	@ 3177.50 m	325.50
0.80 °	@ 3187.10 m	328.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	18.00	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	3.75	TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
SHUT IN		FLOW CHECK	0.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	1
Caustic	1
Starpak	
Desco	
Cal Carb	300
Drispac	13
Kelzan	6
Saf Kote	1
Corinox	2
Sod-Sulph	2
Barite	

MUD COMMENTS: Polymer - 2, Sulfite - 160.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.02 @ 00:00 Hours:
Circulated and increased mud density to 1025 kg/m3, flow checked, slight flow. Circulated and increased mud density to 1040 kg/m3, flow checked, well static. Drilled 215.9mm hole with surveys and rig services as required to 3195mKB at 24:00 hours 1999.09.02.

Note #1: Hole Drag: 6,000 daN up, 9,000 daN down.
#2: Torque: 9,000-11,500 Nm.
#3: Bottom Hole Temperature MWD - 78 degrees C.
#4: Conducted BOP drill and discussion with day crew.

SUPERVISOR: M.Rogerson/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/02
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 165
OPERATOR: SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 2.5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3150.00 m PROGRESS: 3.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3156.00 m 8:00 a.m. OPERATION: Drilling 215.9mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 84491 CUMULATIVE COST: $14821539

1 Bit	1 Bit sub	1 Monel	1 # PT reamer	1 Shock sub
3 Drill collar	1 Drlg jar	12 Drill Collar	1 xo sub	9 HWDP

TOTAL ROTATING HOURS: 2436.4

LENGTH: 247.19 m WT. BELOW JARS: 7000 daN JAR HRS: 2.0 JAR SERIAL #: 10134

WT. ON BIT: 6000 daN ROTARY RPM: 40 STRING WT.: 121000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 15

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	DRG	BIT WT daN	RPM	CUTTING I	O	D	STRUCT L	B	G	O	REMARKS R
1D	215.9	HW	CF863	J7	9.5	9.5	9.5	3147	3147	0	0.0	2.00		1-6	40	1	1		A	1	I		BHA
2D	215.9	Smith	L80661	F3R	9.5	9.5	9.5	3147		3	1.5	2.00		4-8	40								
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	TAN. Sol. kg/m3	DRIL. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPF	MFD	°C IN/OUT
45	1000/1010	10.0	10.2	1.0	14/ 7.0	2.0/3.0							450	180	0.2	1.0	/ 48
	/				/	/											/

CENTRIFUGE IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY PP m/MIN	PC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	90	1.24	Emsco	152	254			8900	51.8	107.1	96.8	108.70

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING	2.00	BOP DRILL	
HNDL TOOLS	4.75	SAFETY MTG	0.50
RIG SERV	0.50	CIRCULATE	
COND MUD	9.75	TRIPPING	4.00
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT		W/N.U. BOP	
SHUT IN	1.50	FLOW CHECK	0.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	
Biocide	1
Caustic	3
Starpak	
Desco	
Cal Carb	150
Drispac	
Kelzan	
Saf Kote	2
Corinox	4
Sod-Sulph	4
Barite	

MUD COMMENTS: Polymer - 3.4

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.09.01 @ 00:00 Hours:
Made up BHA. Tripped in bit #2D to 285mKB. Function tested MWD tool, no results. Slipped and cut drilling line. Function tested MWD tool, OK. Tripped bit #2D to 3146mKB. Circulated and conditioned mud. Conducted BOP drill and SOS safety meeting prior to drill out. Drilled out float shoe and 215.9mm hole to 3150mKB. Flow checked well, slight flow. Circulated bottoms up. Shut in well and monitored pressures. Pressure too small to measure. Opened up well. Well flowed. Circulated, increasing mud density with calcium carbonate to 24:00 hours 1999.09.01.
Note #1: Hole Drag: 10,000 daN up, 6,000 daN down.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/02
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 165 DEPTH: 3150.00 m PROGRESS: 3.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 2.5 °C
8:00 a.m. OPERATION: Drilling 215.9mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #2: Torque: 9,500-10,500 Nm.
#3: Mud Density: 1025 kg/m3 - slight flow.
1040 kg/m3 - well static.
Current Mud Density: 1040 kg/m3.
#4: Decided not to run leak off test as potential to break down fractured carbonate and loss circulation existed.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/09/01
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 164
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Running in hole with 215.9mm bit (F3).

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 191896 CUMULATIVE COST: $14737048

BHA

1	Bit	1	Bit sub	1	Monel			1	# PT reamer
1	Shock sub	3	Drill collar	1	Drlg jar	12	Drill Collar	1	XO sub
9	HWDP								

LENGTH: 247.19 m WT. BELOW JARS: 16000 daN JAR HRS: JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 15

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	REMARKS O	R
1D	215.9	HW	CF863	J7	9.5	9.5	9.5	3147	3147	0	0.0	2.00		1-6	40	1	1		A	1	I		BHA
2D	215.9	Smith	LG0661	F3	9.5	9.5	9.5	3147		0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	°C IN/OUT
43	1015/1015	9.5	9.3	1.0	10/ 9.0	2.0/3.0							450	160	0.2	1.0	/ 48
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	90	1.24	Emsco	152	254			8900	51.8	107.1	96.8	109.78

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	2.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	4.50
COND MUD	1.25	TRIPPING	9.25
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
DRLG OUT	2.00	W/N.U. BOP	
PRESS TEST	3.50	SPECICAL	0.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	2
Soda ash	6
Caustic	2
Starpack	82
Desco	
Drispac R	15
Drispac L	15
Kelzan	9
Saf kote	
Corinox	
Sulf acid	4
Barite	

MUD COMMENTS: Polymer 3.4 kg/m3

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.31 @ 00:00 Hours:
Inspected top drive. Rig serviced. Functioned remote choke. Strapped in hole with bit to 1511mKB. Circulated hole. Drilled out stage tool. Pressure tested stage tool, casing, annular and top rams to 1500 kPa low and 17500 kPa high for 15 minutes each, held OK. Ran in hole from 1511.9mKB to 3132.5mKB. Drilled out float collar and cement to 3146.5mKB. Circulated hole clean. Pressure tested bottom pipe rams to 1500 kPa low and 17500 kPa high for 15 minutes each. Circulated hole clean. Pumped 10m3 water then displaced hole to polymer mud system. Rig serviced. Functioned annular, closed in 23 seconds. Tripped out. Changed bottom

SUPERVISOR: B.Shudra/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/09/01
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 164 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 5 °C
8:00 a.m. OPERATION: Running in hole with 215.9mm bit (F3).

DRILLING & GEOLOGICAL REMARKS (Cont'd)

hole assembly, installing MWD, Gamma tool to 24:00 hours 1999.08.31.

REPORTED BY: B.Shudra/D.Solberg

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CO 06/97

PAJAK ENGINEERING LTD.

NEB/BANGAY

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/31
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 163
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 7 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Running hole to drill out float and cement.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 58776 | CUMULATIVE COST: $14545152

BHA

1	Bit	1	Bit sub	9	Drill collar	1	Drlg jar	6	Drill Collar
1	XO sub	9	HWDP						

LENGTH: 233.56 m | WT. BELOW JARS: 16000 daN | JAR HRS: | JAR SERIAL #: 10134

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN | ROTARY RPM: | STRING WT.: daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 178 | THREAD: H90 | NO. IN HOLE: 15

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	DULL MTdaN	DULL RPM	CUTTING STRUCT 1	2	3	4	5	6	7	8	REMARKS G	R
1D	215.9	HW	CF863	J7	9.5	9.5	9.5	3147		0				-											
										0				-											
										0				-											

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity s/qt	DENSITY IN/OUT	pH	WL cc/30min	FC mm	RV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE V/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY Mud	Pm	pH IN/OUT
77	1500/1500	10.5	5.9	1.5	21/ 33.0	21./27.	22.00		8.250	30			1200	340	0.4	4.3	/ 68
	/				/	/											/

CENTRIFUGE: HR IN kg/m3 DUT kg/m3 | DEGASTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DESILTER: HR OUT kg/m3 | TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN					
Emsco	152	254			Emsco	152	254				0.0	0.0	0.0	0.00

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV		CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
SET SLIPS	6.00	W/N.U. BOP	7.00
PRESS TEST	5.00	SPECICAL	8.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	9
Sawdust	
Chemcide	
Sulphamic	
Desco	
Drispac	
Potassium	
Sod-Sulph	
Saf kote	
Corinox	
Percol 728	
Barite	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.08.30 @ 00:00 Hours:
Waited on cement. Tried to release casing elevators. Locked on casing. Picked up BOPs. Set casing slips. Cut off casing. Laid down casing and casing elevators. Prepared final cut on casing. Installed tubing hanger. Energize seal. Nippled up BOPs. Pressure test blind rams, manifold, hydraulic valve on top drive to 1500 kPa low and 17500 kPa high for 10 minutes each. Inspected 6 drill collars while running in hole. Picked up 9 drill collars and drilling jars. Inspected 6 joints heavy weight and top drive to 24:00 hours 1999.08.30.

SUPERVISOR: B.Shudra/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/30
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 162
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Raining TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Installing BOP spool

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 152979 CUMULATIVE COST: $14486376

BHA

6 Drill Collar 1 XO 1 TBR 9 HWDP 1 TBR

LENGTH: 144.00 m WT. BELOW JARS: 16000 daN JAR HRS: 300.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
77	1500/1500	10.5	5.9	1.5	21/ 33.0	21./27.	22.00		8.250	30			1200	340	0.4	4.3	/ 48
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	85	1.18	Emsco	152	254			2700	40.7	40.7		0.00

SURVEYS

		AZIMUTH
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV		CIRCULATE	
COND MUD	3.75	TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	10.50
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	3.00
CEMENTING	6.50	RUN CSG	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Gel	
Sawdust	
Chemcide	4
Sulphamic	10
Desco	
Drispac	
Potassium	14
Sod-Sulph	7
Saf kote	12
Corinox	
Percol 728	2
Barite	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.29 @ 00:00 Hours:
Cemented Stage #1 from 3147-2647mKB with 5m3 inhibited water 2m3 scavenger slurry at 1700 kg/m3, 33 tonnes Thermal 40 + .7% CFR, .9% CFL-2, .15% LTR, 8l/m3 FA-1. 23.2m3 slurry at 1885 kg/m3. Displaced plug to 3132mKB with 57.8m3 mud, 9.7m3 H20, 52.2m3 mud. Plug down at 02:36 hours 1999.08.29. Floats held OK. Dropped stage tool dart. Opened stage tool with 7000 kPa. Full returns while cementing and displacing. Circulated through stage tool. WOC. Held safety meeting prior Stage 2. Stage #2, 1506-500mKB. Dumped 5m3 inhibited water 2m3 scavenger slurry at 1400 kg/m3, 71 tonnes 0-1-0 Class "G" + .5% CFR + .4% CFL-1 prehydrated. 54m3 slurry at

SUPERVISOR: B.Shudra/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/30
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 162 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Raining TEMP: 6 °C
8:00 a.m. OPERATION: Installing BOP spool

DRILLING & GEOLOGICAL REMARKS (Cont'd)

1901 kg/m3. Displaced plug to 1506m with 58m3 mud. Plug down at 13:52 hours 1999.08.29 with 19,000 kPa. Set ECP packer with 25,000 kPa. Bled off pressure. All floats held OK. Rigged out cementers. WOC. Tore out BOPs and worked on casing elevators trying to release them off casing to 24:00 hours 1999.08.29.

Note #1: 8m3 cement returns to surface on Stage #2.
#2: External casing packer set at 688.77mKB.
#3: Full returns throughout all cementing operations.

REPORTED BY: B.Shudra/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/07

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra
PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

DATE: 99/08/30 RPT #: 3
AFE #: A983003 DFS: 161
CEMENT JOB ID (**): P
STRING IDENTIFIER (*): I

(*) STRING IDENTIFIERS
C = Conductor
S = Surface
I = Intermediate
P = Production
L = Liner
(**) JOB IDENTIFIERS
P = Primary S = Squeeze

Summary

	CEMENT INTERVAL				ANNULAR VOLUME (m3)	
1st STAGE	3147.0	m KB	2647.0	m KB	CALIPER	56.90
2nd STAGE	1506.0	m KB	500.0	m KB	GAUGE	44.40
3rd STAGE		m KB		m KB	SLURRY (actual)	77.20

Job Details

HOLE SIZE: 311.00 mm
CASING O.D.: 244.50 mm
SHOE DEPTH: 3147.00 m KB
MAX. RECORDED BHT: 114 deg C

(***) JOB TYPES
1 = Conventional
2 = Foam

JOB TYPE (***): 1
PROPOSED CEMENT TOP: 500.00 m KB
MAXIMUM DEVIATION: deg @ m KB

Comments

Full returns while cementing and displacing.
Stage tool open and closed OK.
ECP inflated w/ 25000 kPa.
Had cement returns to surface from stage #2 8m3.

Mud Data (prior to cementing)

TYPE: K- Minus
DENSITY: 1500.00 kg/m3
VISCOSITY: 77.00 sec/l
YIELD POINT: 33.00 Pa
WATER LOSS: 5.90 ml/30 min
P. V. 21.00 mPa - sec
GELS 21.00 / 27.00 Pa

Plug Type

TOP:
BOTTOM: Rubber
OTHER:

Cement Head

TYPE: Plug loading

Pipe Movement

WHILE:	CONDITIONING	CEMENTING
TYPE	Nil	Nil
STROKE (m)		
RATE (stks/min)		

Stage Tools

TYPE	Davis
DEPTH (m KB)	1506.00

Mix Water

400 bbl tank from water well

Services & Equipment

CEMENT COMPANY: Sanjel
REPRESENTATIVE: Richard Hargsen
EQUIPMENT: Twin & CNA

STAGE ONE

A. Cement Blend Description

	CEMENT TYPE	ADDITIVES	PREFLUSH TYPE	PREFLUSH VOL (m3)
SCAVENGER	Thermal 40	.7% CFR,.9% CFL-2, .15 % LTR, 8L/m3 FA-1	Inhibited water	5.00
FILL				
TAIL	Thermal 40	.7 % CFR,.9% CFL-2, .15% LTR, 8L/m3 FA-1		
OTHER				

B. Cement Data

	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t)	MIX WATER TEMP (deg C)
SCAVENGER	-	2.00		2.00		0.750	1700.00	281	0.410	120.00
FILL	-									
TAIL	2647.0 - 3147.0	17.85	30	23.21	33.00	0.750	1885.00	260	0.410	114.00
OTHER	-									

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra
PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

DATE: 99/08/30 RPT #: 3
AFE #: A983003 DFS: 161
CEMENT JOB ID (**): P
STRING IDENTIFIER (*): I

(*) STRING IDENTIFIERS
C = Conductor
S = Surface
I = Intermediate
P = Production
L = Liner
(**) JOB IDENTIFIERS
P = Primary S = Squeeze

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	25 / 05 : 30	25 / 18 : 45	13.25		2.5	17200	
POOH W/ DRILL PIPE	25 / 18 : 45	26 / 05 : 00	10.25				
RIH W/ CASING	26 / 11 : 45	27 / 19 : 15	7.50				
CIRCULATION	27 / 19 : 15	28 / 23 : 59	4.73		2.3	4700	
CEMENTING – PREFLUSH	29 / 00 : 14	29 / 00 : 23	0.15	5.0	0.9	6000	
– SCAVENGER	29 / 00 : 23	29 / 00 : 25	0.03	2.0	1.3	8500	
– FILL	/ :	/ :					
– TAIL	29 / 00 : 25	29 / 00 : 52	0.45	23.2	1.3	6500	
– OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	29 / 00 : 52	29 / 00 : 55	0.05				
DISPLACEMENT	29 / 00 : 55	29 / 02 : 36	1.68	119.0	1.3	8500	
BUMP PLUG & BLEED OFF	29 / 02 : 36	29 / 02 : 38	0.03			12000	
CEMENT RETURNS	TYPE: No		VOLUME:	m3			
FLOAT HELD	YES [X]	NO [ ]					

STAGE TWO

A. Cement Blend Description

	CEMENT TYPE	ADDITIVES	PREFLUSH TYPE	PREFLUSH VOL (m3)
SCAVENGER	0-1-0 Clas"G"	.5% CFR,.4% CFL-1 prehydrate	Inhibited H20	5.00
FILL				
TAIL	0-1-0 Class	.5% CFR, .4% CFL-1 prydrated H20.		
OTHER				

B. Cement Data

	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t)	MIX WATER TEMP (deg C)
SCAVENGER	-	2.00	0	2.00	1.00		1400.00			
FILL	-									
TAIL	500.0 - 1506.0	47.60	20	57.12	71.00	0.760	1901.00	230	0.440	114.00
OTHER	-									

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	/ :	/ :					
CIRCULATION	/ :	/ :					
CEMENTING – PREFLUSH	/ :	/ :					
– SCAVENGER	/ :	/ :					
– FILL	/ :	/ :					
– TAIL	/ :	/ :					
– OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	/ :	/ :					
DISPLACEMENT	/ :	/ :					
BUMP PLUG & BLEED OFF	/ :	/ :					
CEMENT RETURNS	TYPE:		VOLUME:	m3			
FLOAT HELD	YES [ ]	NO [ ]					

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	DATE:	99/07/28
LOCATION:	300-N61-6040-12330-0	G.L. ELEVATION:	604.00 m
		K.B. ELEVATION:	610.70 m
SURFACE ( )	INTERMEDIATE (X) PRODUCTION ( )	KB TO GROUND:	6.70 m

SIZE:	244.50 mm	WEIGHT:	80 kg/m	GRADE:	L-80
MAKE:	Tamsa	THREAD:	8Rd	CONDITION:	New

FLOAT/GUIDE SHOE - MAKE: Davis Float FLOAT COLLAR - MAKE: Davis

HANGER - TYPE: Davis stage tool

RAN: 26 jts. 244.50 mm OD CASING SET @ 3147.00 m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)
Float shoe	0.53	3147.00			
Float collar	0.47	3132.00			
Stage tool	0.64	1509.55			
Dicp	2.25	688.77			

CASING BOWL

SIZE:	340 x 346 mm
SERIAL #:	24200-01
TYPE:	Rector
API:	35000 kPa

CENTRALIZERS

NO.:	20
INTERVALS:	3140.00 - 2882.00
MAKE:	Import Tool
TYPE:	rigid steel

CASING HANGER

SIZE:	X mm
MAKE:	
TYPE:	
API:	kPa

SCRATCHERS

NO.:	-
INTERVALS:	
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN m/rpm STROKES/RPM mins. PRIOR TO CEMENTING

RECIPROCATED/ROTATE CASING IN m/rpm STROKES/RPM mins. WHILE CEMENTING

SURPLUS:

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/28
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210
SIZE: 244.50mm WEIGHT: 80 kg/m THREAD: 8Rd GRADE: L-80 MAKE: Tamsa

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
1	13.95		31			61			91			121		
2	14.09		32			62			92			122		
3	13.45		33			63			93			123		
4	14.40		34			64			94			124		
5	13.72		35			65			95			125		
6	13.97		36			66			96			126		
7	14.32		37			67			97			127		
8	13.67		38			68			98			128		
9	13.97		39			69			99			129		
10	14.19		40			70			100			130		
TOTAL	139.73		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00	
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
11	13.80		41			71			101			131		
12	14.06		42			72			102			132		
13	13.62		43			73			103			133		
14	14.32		44			74			104			134		
15	13.44		45			75			105			135		
16	13.04		46			76			106			136		
17	13.75		47			77			107			137		
18	14.18		48			78			108			138		
19	13.48		49			79			109			139		
20	14.29		50			80			110			140		
TOTAL	137.98		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00	
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
21	14.27		51			81			111			141		
22	13.47		52			82			112			142		
23	14.35		53			83			113			143		
24	13.99		54			84			114			144		
25	13.84		55			85			115			145		
26	13.30		56			86			116			146		
27			57			87			117			147		
28			58			88			118			148		
29			59			89			119			149		
30			60			90			120			150		
TOTAL	83.22		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00	

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
1- 10	139.73	51- 60	0.00	101-110	0.00
11- 20	137.98	61- 70	0.00	111-120	0.00
21- 30	83.22	71- 80	0.00	121-130	0.00
31- 40	0.00	81- 90	0.00	131-140	0.00
41- 50	0.00	91-100	0.00	141-150	0.00
				TOTAL	360.93

JTS	LENGTH	
		Brought Forward
26	360.93	Page Total
26	360.93	Total on Location
0	0.00	Total Left Out (incl. LJ)
26	360.93	Total Perm. in Hole

REMARKS

CD 06/97 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	DATE:	99/07/28
LOCATION:	300-N61-6040-12330-0	G.L. ELEVATION:	604.00 m
		K.B. ELEVATION:	610.70 m
SURFACE ( )	INTERMEDIATE (X) PRODUCTION ( )	KB TO GROUND:	6.70 m

SIZE:	244.50 mm	WEIGHT:	70 kg/m	GRADE:	C-95
MAKE:	Cantak	THREAD:	BT&C	CONDITION:	New

FLOAT/GUIDE SHOE – MAKE:
HANGER – TYPE:

FLOAT COLLAR – MAKE:

RAN: 100 jts. 244.50 mm OD CASING SET @ 3147.00 m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)

CASING BOWL

SIZE:	340 x 346 mm
SERIAL #:	24200-01
TYPE:	Rector
API:	35000 kPa

CENTRALIZERS

NO.:	
INTERVALS:	-
MAKE:	Import Tool
TYPE:	Bow spring

CASING HANGER

SIZE:	X mm
MAKE:	
TYPE:	
API:	kPa

SCRATCHERS

NO.:	
INTERVALS:	-
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM	mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM	mins. WHILE CEMENTING

SURPLUS:

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/28
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CLARD #: 454-037-6130-5210
SIZE: 244.50mm WEIGHT: 70 kg/m THREAD: BT&C GRADE: C-95 MAKE: Cantak

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
27	13.59		57	13.66		87	13.59		117			147		
28	13.44		58	13.41	2	88	13.65		118			148		
29	13.42		59	13.69		89	13.35		119			149		
30	13.43		60	13.73		90	12.71		120			150		
31	13.52		61	13.74		91	13.73		121			151		
32	13.63		62	13.49		92	13.26		122			152		
33	13.52		63	13.43		93	13.36		123			153		
34	13.34		64	13.28		94	13.58		124			154		
35	13.60		65	13.09		95	13.26		125			155		
36	13.31		66	13.04		96	13.71		126			156		
TOTAL	134.80		TOTAL	134.56		TOTAL	134.20		TOTAL	0.00		TOTAL	0.00	

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
37	13.47		67	13.36		97	13.64		127			157		
38	13.28		68	13.36		98	12.54		128			158		
39	13.44		69	13.89		99	13.54		129			159		
40	13.84		70	13.41		100	13.79		130			160		
41	13.46		71	13.42		101	13.59		131			161		
42	13.73		72	13.42		102	13.55		132			162		
43	13.39	2	73	13.55		103	13.32		133			163		
44	13.57	2	74	13.51		104			134			164		
45	13.65		75	13.95		105			135			165		
46	13.63		76	13.55		106			136			166		
TOTAL	135.46		TOTAL	135.42		TOTAL	93.97		TOTAL	0.00		TOTAL	0.00	

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
47	13.58		77	13.12		107			137			167		
48	13.50		78	13.48		108			138			168		
49	13.37		79	13.57		109			139			169		
50	13.56		80	13.21		110			140			170		
51	13.46		81	13.37		111			141			171		
52	13.37		82	13.47		112			142			172		
53	13.01		83	13.46		113			143			173		
54	13.66		84	13.36		114			144			174		
55	13.77		85	13.66		115			145			175		
56	13.40		86	13.48		116			146			176		
TOTAL	134.68		TOTAL	134.18		TOTAL	0.00		TOTAL	0.00		TOTAL	0.00	

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
27- 36	134.80	77- 86	134.18	127-136	0.00
37- 46	135.46	87- 96	134.20	137-146	0.00
47- 56	134.68	97-106	93.97	147-156	0.00
57- 66	134.56	107-116	0.00	157-166	0.00
67- 76	135.42	117-126	0.00	167-176	0.00
				TOTAL	1037.27

JTS.	LENGTH	
26	360.93	Brought Forward
77	1037.27	Page Total
103	1398.20	Total on Location
3	40.37	Total Left Out (incl. LJ)
100	1357.83	Total Perm. in Hole

REMARKS

CD 86/37 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	DATE:	99/08/29
LOCATION:	300-N61-6040-12330-0	G.L. ELEVATION:	604.00 m
		K.B. ELEVATION:	610.70 m
SURFACE ( )	INTERMEDIATE (X) PRODUCTION ( )	KB TO GROUND:	6.70 m

SIZE:	244.50 mm	WEIGHT:	65 kg/m	GRADE:	L-80
MAKE:	Cantak	THREAD:	BT&C	CONDITION:	New

FLOAT/GUIDE SHOE – MAKE:
HANGER – TYPE:

FLOAT COLLAR – MAKE:

RAN: 208 jts. 244.50 mm OD CASING SET @ m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)

CASING BOWL

SIZE:	340 x 346 mm
SERIAL #:	24200-01
TYPE:	Rector
API:	35000 kPa

CENTRALIZERS

NO.:	
INTERVALS:	-
MAKE:	Import Tool
TYPE:	Bow spring

CASING HANGER

SIZE:	X mm
MAKE:	
TYPE:	
API:	kPa

SCRATCHERS

NO.:	
INTERVALS:	-
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM:	mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM:	mins. WHILE CEMENTING

SURPLUS:

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

SUPERVISOR: Bill Shudra PHONE #:(600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/29
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210
SIZE: 244.50mm WEIGHT: 65 kg/m THREAD: BT&C GRADE: L-80 MAKE: Cantak

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
104	14.08		134	14.03		164	13.86		194	13.99		224	13.85	1
105	13.55		135	13.94		165	14.23		195	14.03		225	13.81	1
106	13.65		136	14.19		166	14.07		196	13.44		226	14.03	1
107	13.83		137	14.15		167	14.07		197	13.72		227	14.06	1
108	14.00		138	13.90		168	13.83		198	13.81		228		
109	13.64		139	14.24		169	13.09		199	14.05		229		
110	14.03		140	14.13		170	13.50		200	14.18		230		
111	13.54		141	14.13		171	13.78		201	13.93		231		
112	13.60		142	13.86		172	13.98		202	13.75		232		
113	14.03		143	14.00		173	13.73		203	14.16		233		
TOTAL	137.95		TOTAL	140.57		TOTAL	138.14		TOTAL	139.06		TOTAL	55.75	
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
114	14.11		144	13.77		174	13.47		204	13.95		234		
115	13.82		145	14.08		175	13.98		205	13.70		235		
116	14.21		146	13.90		176	13.41		206	14.01		236		
117	14.00		147	13.91		177	13.06		207	13.71		237		
118	14.08		148	13.73		178	13.69		208	13.94		238		
119	13.94		149	13.65		179	14.00		209	14.14		239		
120	13.69		150	13.51		180	14.00		210	13.74		240		
121	14.06		151	14.07		181	13.94		211	13.14		241		
122	14.20		152	13.52		182	13.62		212	14.19	1	242		
123	13.93		153	14.19		183	14.10		213	14.00	1	243		
TOTAL	140.04		TOTAL	138.33		TOTAL	137.27		TOTAL	138.52		TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
124	14.32		154	13.80		184	14.02		214	13.44	1	244		
125	13.36		155	14.19		185	13.82		215	14.03	1	245		
126	13.83		156	13.34		186	14.05		216	13.26	1	246		
127	13.76		157	13.73		187	13.69		217	13.26	1	247		
128	14.02		158	14.00		188	13.52		218	13.77	1	248		
129	14.05		159	13.71		189	13.82		219	13.51	1	249		
130	14.13		160	14.14		190	14.04		220	13.94	1	250		
131	13.55		161	14.17		191	13.64		221	13.81	1	251		
132	13.91		162	14.02		192	13.93		222	13.91	1	252		
133	13.90		163	13.60		193	14.04		223	13.73	1	253		
TOTAL	138.83		TOTAL	138.70		TOTAL	138.57		TOTAL	136.66		TOTAL		

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
104-113	137.95	154-163	138.70	204-213	138.52
114-123	140.04	164-173	138.14	214-223	136.66
124-133	138.83	174-183	137.27	224-233	55.75
134-143	140.57	184-193	138.57	234-243	
144-153	138.33	194-203	139.06	244-253	
				TOTAL	1718.39

JTS.	LENGTH	
103	1398.20	Brought Forward
124	1718.39	Page Total
227	3116.59	Total on Location
19	260.97	Total Left Out (incl. LJ)
208	2855.62	Total Perm. in Hole

REMARKS

CD 08/97 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/29
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210
SIZE: 244.50mm WEIGHT: 80 kg/m THREAD: BT&C GRADE: L-80 MAKE: Cantak

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
209	12.15	1	239			269			299			329		
210	12.57		240			270			300			330		
211	13.10		241			271			301			331		
212	12.98		242			272			302			332		
213	13.14		243			273			303			333		
214	13.19		244			274			304			334		
215	12.88		245			275			305			335		
216	12.99		246			276			306			336		
217	12.60		247			277			307			337		
218	13.12		248			278			308			338		
TOTAL	128.72		TOTAL			TOTAL			TOTAL			TOTAL		

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
219	12.96		249			279			309			339		
220	13.20		250			280			310			340		
221	13.42		251			281			311			341		
222	13.35		252			282			312			342		
223	12.89		253			283			313			343		
224	13.01		254			284			314			344		
225	13.19		255			285			315			345		
226	13.50		256			286			316			346		
227	13.30		257			287			317			347		
228	13.13		258			288			318			348		
TOTAL	131.95		TOTAL			TOTAL			TOTAL			TOTAL		

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
229	13.18		259			289			319			349		
230	13.16		260			290			320			350		
231	13.01		261			291			321			351		
232			262			292			322			352		
233			263			293			323			353		
234			264			294			324			354		
235			265			295			325			355		
236			266			296			326			356		
237			267			297			327			357		
238			268			298			328			358		
TOTAL	39.35		TOTAL			TOTAL			TOTAL			TOTAL		

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
209-218	128.72	259-268		309-318	
219-228	131.95	269-278		319-328	
229-238	39.35	279-288		329-338	
239-248		289-298		339-348	
249-258		299-308		349-358	
				TOTAL	300.02

JTS.	LENGTH	
227	3116.59	Brought Forward
23	300.02	Page Total
250	3416.61	Total on Location
20	273.12	Total Left Out (incl. LJ)
230	3143.49	Total Perm. in Hole

REMARKS

CD 06/97 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	DATE:	99/08/29
LOCATION:	300-N61-6040-12330-0	G.L. ELEVATION:	604.00 m
		K.B. ELEVATION:	610.70 m
SURFACE ( )	INTERMEDIATE (X) PRODUCTION ( )	KB TO GROUND:	6.70 m

SIZE:	244.50 mm	WEIGHT:	80 kg/m	GRADE:	L-80
MAKE:	Cantak	THREAD:	BT&C	CONDITION:	New

FLOAT/GUIDE SHOE – MAKE:
HANGER – TYPE:

FLOAT COLLAR – MAKE:

RAN: 230 jts. 244.50 mm OD CASING SET @ 3147.00 m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)

CASING BOWL

SIZE:	340 x 346 mm
SERIAL #:	24200-01
TYPE:	Rector
API:	35000 kPa

CENTRALIZERS

NO.:	
INTERVALS:	–
MAKE:	Import Tool
TYPE:	Bow spring

CASING HANGER

SIZE:	X mm
MAKE:	
TYPE:	
API:	kPa

SCRATCHERS

NO.:	
INTERVALS:	–
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN m/rpm STROKES/RPM mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN m/rpm STROKES/RPM mins. WHILE CEMENTING

SURPLUS:

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL PLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/08/29
DAY: 161
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Foggy TEMP: 8 °C
Midnight DEPTH: 3147.00 m PROGRESS: 19.00 m
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Circulating through stage tool.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 36061 CUMULATIVE COST: $14333397

BHA

1 TBR | 6 Drill Collar | 1 XO | 1 TBR | 9 HWDP | 1 TBR

LENGTH: 144.00 m WT. BELOW JARS: 16000 daN JAR HRS: 300.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 178 THREAD: H90 NO. IN HOLE: 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES 1/32 in			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RWB	BIT WT daN	BIT RPM	GRADING T	GRADING O	GRADING D	GRADING L	GRADING B	GRADING G	GRADING O2	REMARKS
					1	2	3			0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity sec/L	DENSITY IN/OUT kg/m3	pH	PHPA kg/m3	FC mm	PV/YP mPa.s / Pa	GELS 0/10 Pa	Yield Point kg/m2	Dyn. Filt. kg/m2	SAND %	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl mg/L	Ca mg/L	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
77	1500/1500	10.5	5.9	1.5	21/ 33.0	21./27.	22.00		8.250	30			1200	360	0.4	4.3	/ 48
	/				/	/											/

CENTRIFUGE: 14 HR IN 1640 kg/m3 OUT 1950 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/min	DC m/min	VELOCITY m/sec	%HP
Emsco	152	254	55	0.76	Emsco	152	254	55	0.76	4800	52.4	52.4		0.00

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	0.25
RIG SERV		CIRCULATE	
COND MUD	21.75	TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	
REAMING		RUN CBG	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Gel	
Sawdust	
Mica	
Lime	4
Desco	
Drispac	1
Starpak	1
Sod-Sulph	2
Defoam xl	
Corinox	2
Bicide	
Barite	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.28 @ 00:00 Hours.
Circulated casing and lowered mud density from 1640kg/m3 to 1500kg/m3. Held safety meeting prior cementing. Rigged in cementers. Pumped 59m3 corrosion protection fluid.
Prepare to cement stage #1 to 23:59 hours, 1999.08.28.

SUPERVISOR: B.Shudra D.Salberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

NEB RANGER

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 586

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/08/28
DAY: 160

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Overcast TEMP: 7 °C
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m
8:00 a.m. DEPTH: 3147.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Circulating 244.5mm casing. Conditioning mud - lower density.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 450823 CUMULATIVE COST: $14297336

BHA

6 Drill Collar 1 XO 1 TBR 9 HWDP 1 TBR

LENGTH: 144.00 m WT. BELOW JARS: 16000 daN JAR HRS: 300.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 117000 daN

DRILL PIPE O.D.	THREAD	DRILL COLLARS O.D.	THREAD	NO. IN HOLE
127	5" XH	178	H90	6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES: mm 1	2	3	DEPTH IN	OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	RMG	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. S. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MUD	MFO	P.C IN/OUT
89	1640/1640	10.5	6.0	1.5	23/ 35.0	23./28.			8.250	30			1300	340	0.4	4.3	/ 48
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	50	0.69	Emsco	152	254	50	0.69		47.6	47.6		0.00

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	4.75
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	
REAMING		RUN CSG	19.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Gel
Sawdust
Mica
Lime
Desco
Potassium
Starpak
Sod-Sulph
Defoam xl
Corinox
Biocide
Barite

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.08.27 @ 00:00 hours.
Ran 26 joints of 244.5mm, 79.62kg/m, HCL-80, LT&C. Length, with float shoe and float collar, 361.93m. Followed by 74 joints of 244.5mm, 69.94kg/m, C-95, BT&C. Length, 1072.11m. Followed by 107 joints of 244.5mm, 64.74kg/m, L-80, BT&C. Length 1426.88m. Stage tool at 1509.55mKB. ECP at 688.77mKB. Followed by 21 joints of 244.5mm, 79.62kg/m, L-80, BT&C. Length 275.3m. Overall string length of 3148.16m. Broke circulation. Started to circulate casing at 3122mKB with 1 pump at 60 SPM for 2.50 hours. Then cirulated with 2 pumps at 60 SPM each, for 2 hours. Worked casing from 3122mKB to 3126mKB to 23:59 hours, 1999.08.27.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 05/97

NEB W/F

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/27
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 159
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Light rain | TEMP: 6 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Running 244.5mm casing

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 93634 | CUMULATIVE COST: $13846513

BHA

6 Drill Collar | 1 XO | 1 TBR | 9 HWDP | 1 TBR

LENGTH: 144.00 m | WT. BELOW JARS: 16000 daN | JAR HRS: 300.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.6

WT. ON BIT: 0 daN | ROTARY RPM: | STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 178 | THREAD: H90 | NO. IN HOLE: 6

BITS

BIT NO.	SIZE mm	NAME	SERIAL #	TYPE	NOZZLES IN	DEPTH IN	DEPTH OUT	MTRS	HOURS	BIT WOB daN	BIT RPM	CUTTING STRUCT	REMARKS
								0					
								0					
								0					

LAST PIPE TALLY: 3146.59 | BOARD: 3147.00 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity sec/L	DENSITY kg/m³ OUT	pH	WL cc/30min	FC mm	PV/YP	GELS	Temp °C	Drill Solids kg/m³	SAND %	BENTONITE kg/m³	LCM kg/m³	Oil %	Cl mg/L	Ca mg/L	ALKALINITY MF	ALKALINITY MFO	% IN/OUT
92	1640/1640	10.5	6.2	1.5	21/ 35.0	25. /29.	437.00		8.250	30			1300	340	0.4	4.3	/ 70
	/				/	/											/

CENTRIFUGE: HR IN kg/m³ OUT kg/m³ | DESILTER: HR OUT kg/m³ | DESANDER: HR OUT kg/m³ | DEGASSER: HR OUT kg/m³ | TOTAL MUD DUMPED: m³

PUMP

PUMP NO. 1	TYPE: F-1000	PUMP NO. 2	TYPE: F-1000	PRESSURE kPa	ANNULAR VELOCITY	JET
MODEL	LINER mm	STROKE mm	SPM	m³/min	MODEL	LINER mm	STROKE mm	SPM	m³/min	kPa	DP m/min	DC m/min	VELOCITY m/sec	kW
Emsco	152	254			Emsco	152	254				0.0	0.0		0.00

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	8.25	SAFETY MTG	0.25
RIG SERV	0.25	CIRCULATE	0.75
COND MUD		TRIPPING	1.75
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE	1.50	W/N.U. BOP	
REAMING		RUN CSG	11.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

	Sol	45
Sawdust		500
Mica		
Lime		
Desco		
Potassium		
Starpak		
Sod-sulph		
Defoam xl		
Corinox		
Biocide		
Barite		

MUD COMMENTS: Correction on mud $4700.00 shortage & breakage.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Reported below.)

1999.08.26 @ 00:00 Hours:
Tripped out to run casing. Rigged up lay down truck. Laid down 228mm drill collars. Rigged to run casing. Functioned blind rams. Closed in 7 seconds. Held safety meeting prior running casing. Ran 244.5mm float shoe, float collar and 26 joints of 244.5mm, 79.62 kg/m, L80HC, LT&C, Brd. casing (361.93m). Ran 29 joints of 244.5mm, 69.94 kg/m, C-95, BT&C casing (405.05m). Broke circulation and circulated bottoms up at 723mKB. Continued running casing to 24:00 hours 1999.08.26.

SUPERVISOR: B.Shudra/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-057-6130-5210

CD 96/ST

PAJAK ENGINEERING LTD.

NEB

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/26
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 158
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast light rain | TEMP: 7.0 °C | FINAL TD: 3147.00 m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Rigging to run 244.5mm casing.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 75931 | CUMULATIVE COST: $13752879

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	Xo Sub	6	Drill Collar	1	Xo	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m | WT. BELOW JARS: 16000 daN | JAR HRS: 300.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN | ROTARY RPM: 8 | STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	HRS	METER PER HOUR	HOURS ON BIT	HOURS TOTAL	BIT WT	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS 1	REMARKS 2
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 | BOARD: 3147.00 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	LGS kg/m3	SAND %vol	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl mg/l	Ca mg/l	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
92	1640/1640	10.5	6.2	1.5	21/ 35.0	25./29.	437.00		8.250	30			1300	340	0.4	4.3	/ 70
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	ANNULAR VELOCITY DC m/MIN	JET VELOCITY m/sec	HHP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN					
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	17200	35.1	63.2	61.9	129.71

SURVEYS

	AZIMUTH		
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING		BOP DRILL	0.25
HNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	12.25	TRIPPING	9.00
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	
REAMING		Swivels	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Enviroloc	
Lignite	4
Mica	
Lime	5
Desco	
Potassium	
Starpak	4
Sod-Sulph	2
Defoam xl	
Corinox	2
Bicide	1
Barite	85

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.25 @ 00:00 Hours:
Changed out swivel. Slipped and cut drilling line. Rig serviced. Functioned annular, closed in 18 seconds. Ran in hole, to condition mud and hole for casing, to 3100mKB. Circulated and conditioned mud. Ran in to 3147mKB, no fill. Tripped out to run casing. Flow checked as required. Held BOP drill while tripping out. Well secured in 90 seconds. Tripped out to 24:00 hours 1999.08.25.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/25
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 157
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast/Rain TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Circulating and conditioning mud.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 106475 CUMULATIVE COST: $13676948

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m WT. BELOW JARS: 16000 daN JAR HRS: 300.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: 8 STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	WOB daN	RPM	CUTTING STRUCT. T	O	D	L	B	G	REMARKS O	R
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
91	1640/1640	10.5	6.0	1.5	21/ 36.0	24./29.	437.00		8.250	30			1100	320	0.4	4.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	60	0.83	Emsco	152	254	60	0.83	18000	26.2	47.3	46.3	54.23

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	0.25	TRIPPING	2.00
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	18.00
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	
REAMING		Swivels	3.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Enviroflo	40
Lignite	12
Mica	60
Lime	8
Desco	22
Potassium	195
Starpak	8
Sod-Sulph	10
Defoam xl	5
Cellophane	87
Caustic	23
Bicarb	11

MUD COMMENTS: K+Ion 22000, Polymer 3.00, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.24 @ 00:00 Hours:
Ran logging run #6, SED-UGR, 3146.8mKB to 1250mKB. Ran logging run #7, V.S.P, depths on page 2. Load out Computalog equipment. Tripped in hole to 981mKB. Removed swivel and installed new swivel to 24:00 hours 1999.08.24.

Note: Correction made on Mud Cost and Inventory.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/25
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 157 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast/Rain TEMP: 6 °C
8:00 a.m. OPERATION: Circulating and conditioning mud.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

V.S.P Log & Shot Depths.

Shot #	Measured Depth	Formation	Charge Size		
1	3141.5mKB	Nahanni	10 kg		
2	2951.5mKB	Horn River	10 kg		
3	2470mKB	Lower Besa	10 kg	10 kg	2 Holes Discharged
4	2164mKB	1st Black shale (Besa Lmst Mkr)		10 kg	
5	1366mKB	Top Besa /Base Flett	10 kg		
6	1051.5mKB	Top Flett/Base Mattson	10 kg		
7	750mKB	Within Mattson	6 kg		
8	1700mKB	Within Besa	10 kg		
9	500mKB	Within Mattson	2 kg		

REPORTED BY: B.Shudra/J.Brazel

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 08/97

INCIDENT REPORT AUG. 23/99

N·61 ATTN. MICKEY SUTHERLAND.

AT APROX. 11:00 AM DALE McGUIRE UPSET BEADERS ROMATSU LOADER, WHILE LOADING HIS TRUCK WITH SHALE. HE TOOK ON A LOAD OF SHALE WITH THE LOADER ON APROX 3:1 SLOPE, WITH THE LOWER HALF OF THE BUCKET FULL AND THE TOP HALF EMPTY.
HE LIFTED THE BUCKET UP AND ATTEMPTED TO MOVE, THE LOADER ROLLED UP SIDE DOWN BEFORE HE HAD A CHANCE TO RECTIFY THE SITUATION.
TO SET THE MACHINE UPRIGHT A GIN POLE TRUCK AND A BED TRUCK WAS USED. THE BED TRUCK WINCHED IT BACK OVER AND THE POLE TRUCK HELD IT FROM FALLING. THE LOADER WAS UPRIGHTED WITHOUT INCIDENT AND TOWED UP TO THE SHOP AREA.
THE DAMAGES WERE QUITE EXTENSIVE, THE GRILL, SIDE PANNELS AND ROOF IS DENTED AND TWISTED. THE BACK WINDOW IS BROKE OUT AND THE EXHAUST IS BENT OVER. THE ENGINE IS LOCKED UP. THE MECHANIC THINKS ITS OIL AND FUEL LOCKED.
THE OPERATOR WAS NOT HURT, THANKS TO THE R.O.P.S. DOING ITS JOB.
THE MAIN REASON FOR THIS INCIDENT WAS OPERATOR ERROR, DUE TO INEXPERIENCE.

H. PEARSON.

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/08/24
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 156
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m	8:00 a.m. OPERATION: Logging with Computalog. Rigging to run V.S.P.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56860 CUMULATIVE COST: $13570473

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m WT. BELOW JARS: 16000 daN JAR HRS: 300.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: 8 STRING WT.: 117000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	RWD	BIT WT daN	RPM	CUTTING STRUCT 1	2	3	DULL	LOC	B	G	REMARKS O	R
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

MUD TYPE	DENSITY IN/OUT	PH	VIS s/qt	FC mm	PV/YP	GELS 0/10	CHL ppm kg/m3	OIL % by vol	SAND % by vol	BENTONITE kg/m3	LGS kg/m3	DS kg/m3	CL ppm	CA ppm	ALKALINITY Mf	Pm	°C IN/OUT
91	1640/1640	10.5	6.0	1.5	21/ 36.0	24. /29.	437.00		8.250	30			1100	320	0.4	4.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	SHAKER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DESILTER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	RPM	m3/min	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	RPM	m3/min	PRESSURE kPa	ANNULAR VELOCITY DP m/min	DC m/min	JET VELOCITY m/sec	bhp
Emsco	152	254			Emsco	152	254			18000	0.0	0.0	0.0	0.00

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV		CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	24.00
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	
Mica	
Lime	
Desco	
Potassium	
Starpak	
Sod-Sulph	
Alcomer110	
Biocide	
Corinox	
Drispac	

MUD COMMENTS: K+Ion 22000, Polymer 3.00, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.23 @ 00:00 Hours:
Ran in with logging run #3, STI-MDA-SPED-CNT-UGR-Cal. Tool bridged at 2600mKB. Logged out of hole, 2580-1350mKB. Serviced logging tool. Removed bow spring centralizer and changed out one stabilizer which had rubber bands for one with steel bands. Ran in hole with logs. Ran to 3147mKB. Logged run #4, STI-MDA-SPED-CNT-UGR-Cal, 3146.9-2300mKB. Made up and ran logging run #5, SED-UGR (Dipmeter). Ran to 3146.6mKB. Experienced tool failure. Gamma Ray burnt out. Hoisted. Fixed Gamma Ray. Ran in hole and logged run #6, SED-UGR. Logged up from 3146.8mKB to 24:00 hours 1999.08.23.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-087-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/23
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 155
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 10 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Logging with computalog from 3147mKB.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 62363 | CUMULATIVE COST: $13513613

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m | WT. BELOW JARS: 16000 daN | JAR HRS: 300.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.6

WT. ON BIT: 0 daN | ROTARY RPM: 8 | STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /64th			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	BIT WT/1000	BIT RPM	CUTTING STRUCT 1	2	3	4	5	6	7	REMARKS 8	9
					1	2	3																	
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	LT	TD	
										0				-										
										0				-										

LAST PIPE TALLY: 3146.59 | BOARD: 3147.00 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Temp. Out °C	Density kg/m3	SAND % by vol	BENTONITE kg/m3	LGS kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY PM	% LC IN/OUT
91	1640/1640	10.5	6.0	1.5	21/ 36.0	24. /29.	437.00		8.250	36			1100	320	0.4	4.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DISPOSED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY DP	ANNULAR VELOCITY DC	JET VELOCITY	JET IMP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	m/MIN	m/MIN	m/sec	
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	18000	35.1	63.2	61.9	129.71

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	7.75	TRIPPING	10.00
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	3.75
CLN TO BTM		W.O.C.	
REPAIRS		LOST CIRC	2.25
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	91
Lignite	8
Mica	191
Lime	2
Desco	1
Potassium	
Starpak	4
Sod-Sulph	2
Aloomer110	
Biocide	2
Corinox	2
Drispac	3

MUD COMMENTS: K+Ion 22000, Polymer 3.00, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.08.22 @ 00:00 Hours:
Tripped in hole. Circulated and conditioned mud. Started losing mud after circulating for 135 minutes. Lost 6m3 of mud. Shut down pumps and monitered well for 130 minutes and mixed up Mica pill. Fluid loss was .08m3/minute, slowing to 16m3/minute. Lost 7m3. Spotted mica pill on bottom. Monitored well. Losses stopped. Well static. Circulated and conditioned mud. Spotted Mica pill on bottom. Tripped out of hole to log. Rigged and ran log #3, STI-MDA-SPED-CNT-UGR-Cal Log is bridged at 2600mKB. Logged out of hole to 24:00 hours 1999.08.22.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

.0 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/23
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 155 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA No.: 300N616040123300

WEATHER: Clear TEMP: 10 °C
8:00 a.m. OPERATION: Logging with Computalog from 3147mKB.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Removed Bowspring centralizers and rubber centralizer off DI POLE Sonic. Ran to bottom at 3146.84mKB at 05:50 hours 1999.08.23. Logging out to 08:00 hours.

REPORTED BY: B.Shudra/J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/22
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 3DDN616040123300 | DAY: 154
OFFICE SUPERVISOR: Nickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 10 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Mixing mica and working on loss circulation problem.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 176466 CUMULATIVE COST: $13451250

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m WT. BELOW JARS: 16000 daN JAR HRS: 252.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2436.4

WT. ON BIT: 0 daN ROTARY RPM: 0 STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS DRILL	HOURS ROT	BIT WT daN	BIT RPM	CUTTING STRUCT t	o	b	L	B	G	REMARKS g	REMARKS c
27	311.0	Smith	UK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 10/10	Tau 0 kg/m2	Oil, % kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl mg/L	Ca mg/L	ALKALINITY Mf	ALKALINITY Pm	FC lb/bbl
91	1650/1650	10.5	6.0	1.5	24/ 36.0	24./29.	437.00		8.250	30			1100	320	0.4	4.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

RUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	RPM	m3/MIN	RUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	18000	35.1	63.2	61.9	130.51

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	14.00	TRIPPING	9.50
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	1176
Lignite	3
Gel	4
Lime	2
Desco	
Potassium	
Starpak	6
Sod-Sulph	
Alcomer110	
Biocide	
Corinox	
Drispac	6

MUD COMMENTS: KCl ion - 22,000. Polymer - 3.00. Sulfite - 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.08.21 @ 00:00 Hours.
circulated and conditioned mud. Wiper tripped up to 2000 mKB. Circulated and conditioned mud. Wiper tripped up to 2100 mKB to 23:59 hours, 1999.08.21.

Note #1: Conditioning mud to increase density and lower water loss.
#2: Hole on wiper trip in good condition. Very small amount of cuttings coming over shaker.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/08/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 153
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: °C		FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m	PROGRESS: 0.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m	8:00 a.m. OPERATION: Circulating and Conditioning mud.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 75439 CUMULATIVE COST: $13274784

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m WT. BELOW JARS: 16000 daN JAR HRS: 252.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: 0 STRING WT.: 117000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32in 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	CIRC	WOB (1000 lbs)	RPM	1	2	3	4	5	6	7	8
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

CUTTING STRUCT. | REMARKS

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Sample Source	DENSITY IN/OUT kg/m3	pH	VIS s/L	FL cc/30min	PV/YP mPa·s / Pa	GELS 10s/10m Pa	T-C °C	FANN 600	FANN 300	FANN 200	FANN 100	FANN 6	FANN 3	CHLORIDES mg/L	CALCIUM mg/L	ALK Mf	ALK Pm	Pf/MF
85	1570/1570	10.5	6.6	1.5	20/ 34.0	26./30.	395.00		7.850	32				1100	320	0.4	4.0	/ 65
	/				/	/												/

CENTRIFUGE: HR IN kg/m3 OUT kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED m3

PUMP

PUMP NO.1 TYPE: P-1000 MODEL	LINER mm	STROKE mm	SPM	m3/min	PUMP NO.2 TYPE: P-1000 MODEL	LINER mm	STROKE mm	SPM	m3/min	PRESSURE kPa	ANNULAR VELOCITY DP m/min	DC m/min	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	16940	35.1	63.2	61.9	124.18

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	18.75	TRIPPING	4.00
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	959
Lignite	10
Gel	4
Lime	6
Desco	2
Potassium	
Starpak	18
Sod-Sulph	5
Alcomer110	
Biocide	2
Corinox	2
Drispac	8

MUD COMMENTS: K+Ion: 24,000. Polymer: 2.90. Sulfite: 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.20 @ 00:00 hours.
Slipped and cut line.
Tripped in hole.
Circulated and conditioned mud to 23:59 hours, 1999.08.20.

NOTE #1: No fill on bottom.
#2: Condition mud to increase density and lower water loss.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-057-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/20
L.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 152
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 17 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Circulating conditioning mud, increasing density.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 54378 | CUMULATIVE COST: $13199345

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m | WT. BELOW JARS: 16000 daN | JAR HRS: 204.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN | ROTARY RPM: 70+20 | STRING WT.: 122000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	HRS	MINS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT.						REMARKS	
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 3146.59 | BOARD: 3147.00 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
80	1505/1505	10.5	9.8	1.5	15/ 36.0	25./29.	346.00		7.525	33			1100	320	0.4	4.0	/ 65
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15900	35.1	63.2	61.9	119.04

SURVEYS

	AZIMUTH	
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	4.75	TRIPPING	11.25
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	7.00
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	85
Lignite	2
Percol 728	
Lime	
Desco	
Potassium	
Starpak	4
Sulph-Acid	
Alcomer110	
Biocide	
Gel	4
Drispac	2

MUD COMMENTS: K+Ion 24500, Polymer 2.60, Sulfite 224.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.19 @ 00:00 Hours:
Tripped in hole. No obstruction noticed at 2521mKB. Hit bridge at 2695mKB. Washed through bridge (1.5m) went to bottom. No fill on bottom. Circulated and conditioned mud. Tripped out of hole to log. Rigged up Computalog.
Log #2, STI-MDA-SPED-CNT-UGR-Cal. Bridged at 2535mKB. Worked tool through tight hole up to 2498mKB. Pulled up to 2450mKB. Ran tool back into 2510mKB. Bridge at 2510mKB. Worked through tight hole 2508mKB and 2503mKB. Pulled out of hole. Laid down Computalog equipment. Tripped in hole with bit F-4. Slip and cut line to 24:00 hours 1999.08.19.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/20
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 152 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 17 °C
8:00 a.m. OPERATION: Circulating conditioning mud, increasing density.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #1: Trip Record:
Calculated Volume: 18.15m3, Measured Volume: 19.51m3
Difference: + 1.36m3.
#2: Held BOP drill with crew, well secure in 65 seconds.
#3: Attached are Pason Charts with drilling parameters through this interval where hole is bridging, also attached is geological description.
#4: Initial description of hole bridging mechanism described a filter cake type of build up. After analysis, decided to decrease water loss to +/- 6 cc, but also increase mud density to 1650 kg/m3. From the geological description over the area of bridging, it is unlikely that filter cake alone is the bridging cause. The shales in this section are overpressured and may be starting to slowly unload. The intent is to increase mud density to 1650 kg/m3 to prevent further shale sloughing.

REPORTED BY: B.Shudra/J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/19
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 151
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3147.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Circulating and conditioning mud.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 43707 CUMULATIVE COST: $13144967

BHA

1	Bit F4P	1	Bit Sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
1	XO Sub	6	Drill Collar	1	XO	1	TBR	9	HWDP
1	TBR								

LENGTH: 225.85 m WT. BELOW JARS: 16000 daN JAR HRS: 204.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN ROTARY RPM: 70+20 STRING WT.: 122000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT/1000	RPM	CUTTING STRUCT 1	2	3	4	5	6	7	REMARKS 8	9
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115	3147	32	1.7	18.50		15-40	70	2	3	WT	A	E	I	WT	TD	
										0				-										
										0				-										

LAST PIPE TALLY: 3146.59 BOARD: 3147.00 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
75	1500/1500	10.5	10.4	1.5	16/ 32.0	26./29.	327.80		7.450	38			1100	360	0.5	5.4	/ 70
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15500	35.1	63.2		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	2.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	5.75
SURVEYING		SLIP & CUT	
RUN CSG		LOGGING	14.50
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		Top Drive	1.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite
Lignite
Percol 728
Lime
Desco
Potassium
Starpak
Sulph-Acid
Alcomer110
Biocide
Gel
Drispac

MUD COMMENTS: K+Ion 24500, Polymer 2.24, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.18 @ 00:00 Hours:
Hoisted out of hole to log. Laid down monel and all Whipstock directional equipment. Rigged in Computalog. Ran in hole with log #1, STI-MDA-SPED-CNT-UGR-Cal. Bridged at 2521mKB. Worked tool through tight spots at 2508 and 2503mKB. Pulled tool up to 2465mKB. Opened calipers and logged 15m of hole. Ran back into 2508mKB. Tagged bridge. Worked tool up through tight spot at 2503mKB. Logged out of hole, 2450mKB to 735mKB. Density tool worked from 1300mKB to 735mKB. Laid down Computalog equipment. Tripped in hole with bit, F4, to 24:00 hours 1999.08.18.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/19
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 151 DEPTH: 3147.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 6 °C
8:00 a.m. OPERATION: Circulating and conditioning mud.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Trip Record:
Calculated Volume: 18.95m3, Actual Volume: 21.55m3,
Difference: 2.60m3.

REPORTED BY: B.Shudra/J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/18
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 150
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 7 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 3147.00 m | PROGRESS: 0.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 3147.00 m | 8:00 a.m. OPERATION: Logging with Computalog.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 54145 | CUMULATIVE COST: $13101260

BHA

1	Bit F4P	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m | WT. BELOW JARS: 16000 daN | JAR HRS: 204.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 0 daN | ROTARY RPM: 70+20 | STRING WT.: 122000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	O	R	REMARKS
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ	
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050	3115	65	1.1	57.75		25-30	70	8	8	BT	A	F	2	WT	TQ	
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115	3147	32	1.7	18.50		15-40	70	2	3	WT	A	E	I	BT	TD	

LAST PIPE TALLY: 3146.59 | BOARD: 3147.00 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	°C IN/OUT
75	1500/1500	10.5	10.4	1.5	16/ 32.0	26./29.	327.80		7.450	38			1100	360	0.5	5.4	/ 70
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	17000	35.1	63.2		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	7.25
COND MUD		TRIPPING	15.50
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	240
Lignite	
Percol 728	
Lime	
Desco	
Potassium	15
Starpak	
Sulph-Acid	2
Alcomer110	
Biocide	
Gel	
Drispac	1

MUD COMMENTS: K+Ion 24500, Polymer 2.24, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.17 @ 00:00 Hours:
Circulated sample. Flow checked. Pulled 10 stand dummy trip. Circulated and conditioned hole for logs. Flow checked. Wiper tripped out to casing shoe. Slipped and cut drilling line. Rig serviced. Flow checked. Ran in, washed to bottom, no fill. Circulated and conditioned mud for logging. Flow checked and strapped out to log to 24:00 hours 1999.08.17.

Note #1: Hole Drag: 18,000 daN up, 16,000 daN down.
#2: Hole good on wiper trips, no fill.
#3: Strap: 3146.59m. Board tally: 3147.0m, no correction.

SUPERVISOR: M.Rogerson/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 96/17

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
L.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/08/17
DAY: 149
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 14 °C
Midnight DEPTH: 3147.00 m PROGRESS: 23.00 m
8:00 a.m. DEPTH: 3147.00 m 8:00 a.m. OPERATION: Wiper trip to condition hole for logging.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 52263 CUMULATIVE COST: $13047115

BHA

1	Bit F4P	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 204.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2434.4

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 122000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	WT daN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	REMARKS O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050	3115	65	1.1	57.75		25-30	70	8	8	BT	A	F	2	WT	TQ
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		32	1.7	18.50		15-40	70								

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MRO	°C IN/OUT
63	1490/1490	10.5	10.8	1.5	14/ 25.0	25./27.	327.80		7.450	38			1100	360	0.5	5.2	/ 70
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
8 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	16500	35.1	63.2	61.9	117.85

SURVEYS

		AZIMUTH
1.40°	@ 3113.50 m	40.90
1.10°	@ 3123.10 m	28.60
1.00°	@ 3130.00 m	358.50
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	13.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	8.75
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	6
Percol 728	1
Lime	5
Desco	2
Potassium	
Starpak	
Sulph-Acid	
Alcomer110	
Biocide	
Gel	
Drispac	

MUD COMMENTS: K+Ion 25000, Polymer 2.8, Sulfite 288.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.16 @ 00:00 Hours:
Slid from 3124.5-3126mKB. Circulated sample. Rotated to 3130mKB. Circulated sample and surveyed. Slid to 3136mKB. Circulated sample. Rotated to 3137.6mKB. Surveyed. Rig serviced. Slid to 3141mKB. Circulated sample. Worked on #2 pump. Slid to 3143.8mKB. Rotated to 3147mKB. Circulated sample and surveyed to 24:00 hours 1999.08.16.

Note #1: 3147mKB total depth for intermediate hole.
#2: Bottom Hole Temperature: 78 degrees C from MWD.
#3: Hole Drag: 18,000 daN up, 16,000 daN down.
#4: Torque: 9,000-13,000 Nm.
#5: Hole condition good.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/08/16
DAY: 148
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 11 °C
Midnight DEPTH: 3124.00 m PROGRESS: 9.00 m
8:00 a.m. DEPTH: 3130.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Circulating up bottom hole sample.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 70093 CUMULATIVE COST: $12994852

BHA

1 Bit F4P	1 Motor1.5 Deg	1 MWD DC	1 Trans. Sub	1 Float sub
1 Shock sub	3 Drill Collar	1 Drilling Jar	5 Drill Collar	1 XO Sub
6 Drill Collar	1 XO	1 TBR	9 HWDP	1 TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 190.7 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2420.7

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 121000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES m/m 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND.	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050	3115	65	1.1	57.75		25-30	70	8	8	BT	A	F	2	WT	TQ
27	311.0	Smith	LK8869	F4P	15.9	15.9	15.9	3115		9	1.9	4.75		25-30	70								

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	ML cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MFO	°C IN/OUT
62	1500/1500	10.0	10.6	1.5	16/ 28.0	25./28.	327.80		7.450	35			1100	380	0.5	4.6	/ 68
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	16600	35.1	63.2	61.9	118.64

SURVEYS

			AZIMUTH
1.40	@	3104.00 m	40.40
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	5.00	BOP DRILL	
HNDL TOOLS	1.75	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	2.00
COND MUD		TRIPPING	12.50
SURVEYING	0.25	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM	1.00	W.O.C.	
REPAIRS	1.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	

TOTAL HOURS: 24.00

MUD ADDITIVES

Barite	103
Lignite	
Percol 728	
Lime	2
Desco	
Potassium	
Starpak	
Sulph-Acid	
Alcomer110	
Biocide	1
Gel	
Drispac	

MUD COMMENTS: K+Ion 25000, Polymer 2.9, Sulfite 288.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.15 @ 00:00 Hours:
Directionally drilled, sliding from 3115.4-3115.5mKB. Motor kept stalling. Circulated bottoms up. Flow checked. Tripped for new bit. Checked blind rams. Checked and tested MWD. Ran in hole. Washed to bottom. No fill. Rotated 3115.5-3119mKB. Slid 3119-3124mKB. Changed 2 suction valves in #1 pump to

24:00 hours 1999.08.15.
Note #1: Hole Drag: 18,000 daN up, 16,000 daN down.
#2: Torque: 8,000-17,000 Nm.
#3: Hole Fill: Calculated: 18.77m3, Actual: 21.13m3, Difference: 2.36m3.
#4: Hole conditions good on trip, no fill on bottom.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/08/15
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 147
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 15 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 3115.40 m	PROGRESS: 28.40 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 3115.00 m	8:00 a.m. OPERATION: Hoisting out of hole for bit change.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 59005 CUMULATIVE COST: $12924759

BHA

1	Bit HP61A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 185.7 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2415.7

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 121000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050	3115	65	1.1	57.25		25-30	70								
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
62	1490/1490	10.0	12.6	1.5	14/ 27.5	25./28.	327.80		7.450	35			1100	360	0.5	5.2	/ 68
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
15 HR IN kg/m3 OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	NHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	16400	35.1	63.2		0.00

SURVEYS

		AZIMUTH
0.80 °	@ 3075.40 m	30.10
0.90 °	@ 3085.00 m	47.50
1.10 °	@ 3094.50 m	37.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	17.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	4.75
COND MUD		TRIPPING	
SURVEYING	1.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	170
Lignite	12
Percol 728	2
Lime	6
Desco	4
Potassium	26
Starpak	1
Sulph-Acid	2
Alcomer110	
Biocide	1
Gel	4
Drispac	2

MUD COMMENTS: K+Ion 25,000. Polymer 2.9. Sulfite 300.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.14 @ 00:00 hours.
Directionally drilled 311 mm hole from 3087 mKB to 3115 mKB.
Surveys as required. Circulated up 2 samples. Rig serviced.
Slid from 3109.5 mKB to 3112.2 mKB and from 3114.6 mKB to 3115.4 mKB to 23:59 hours, 1999.08.14.

Note #1: Motor stalled frequently while sliding.
#2: Bottom hole temperature from MWD at 3094.5 mKB: 78 degrees C.
#3: Hole drag: 18,000 daN up
16,000 daN down
#4: Torque 9,000 Nm to 16,000 Nm.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 86/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/08/14
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 146
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 12 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3087.00 m	PROGRESS: 10.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3092.00 m	8:00 a.m. OPERATION: Circulating sample at 06:00 hours.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 55592 CUMULATIVE COST: $12865754

BHA

1	Bit HP61A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 168.7 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2398.7

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 118000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS D	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050		37	0.9	40.50		25-30	70								
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFT	MFO	°C IN/OUT
67	1490/1490	10.0	10.4	1.5	16/ 26.0	24./27.	327.80		7.450	30			1100	360	0.5	4.2	/ 66
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	16900	35.1	63.2	61.9	117.85

SURVEYS

		AZIMUTH
0.80 °	@ 3065.80 m	25.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	14.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	8.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	170
Lignite	6
Percol 728	1
Lime	3
Corinox	1
Potassium	30
Starpak	
Sulph-Acid	1
Alcomer110	1
Biocide	2
Gel	4
Drispac	

MUD COMMENTS: K+Ion 24,500, Polymer 3.0, Sulfite 288. Processed 14 m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.13 @ 00:00 hours. Directionally drilled 311 mm hole from 3077 mKB to 3085 mKB. Had fire in #3 engine/generator house. Circulated and waited on mechanics and electricians. Repaired wiring on #2 generator. Drilled from 3085 mKB to 3087 mKB to 23:59 hours, 1999.08.13.

Note #1: MWD bottom hole temperature 78 deg. C @ 3065.8 mKB.

#2: Hole drag: 18,000 daN up and 13,000 daN down.

#3: Torque: 7,500 Nm to 11,500 Nm.

#4: Fire on #3 generator set damaged engine & generator, wiring in #3 & #2 houses, lights in #1, #2 & #3 houses, and some wiring on #2 engine. Possible cause: broken oil or fuel line.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/08/13
DAY: 145
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 4 °C
Midnight DEPTH: 3077.00 m PROGRESS: 22.00 m
8:00 a.m. DEPTH: 3081.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Directionally drilling 311mm hole with motor and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 54733 CUMULATIVE COST: $12810162

BHA

1	Bit HP61A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 154.0 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2384.0

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT /	O	D	L	B	G	O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050		27	1.0	25.75		25-30	70								
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	ML cc/30min	FC mm	PV/YP	GELS 0/10	Tau Sol. kg/m²	Drill Sol. kg/m³	SAND kg/m³	BENTONITE kg/m³	LGS kg/m³	OIL %	Cl ppm	Ca ppm	ALKALINITY Pm	Pf/Mf	°C IN/OUT
66	1490/1490	10.0	10.4	1.5	16/ 25.0	26./30.	327.80		7.450	30			1100	380	0.5	4.8	/ 66
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
13 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	16500	35.1	63.2	61.9	117.85

SURVEYS

		AZIMUTH
0.70 °	@ 3047.00 m	38.10
0.70 °	@ 3056.20 m	46.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	8
Percol 728	
Lime	7
Corinox	1
Potassium	28
Starpak	1
Sod-Sulph	
Alcomer110	1
Desco	4
Gel	4
Drispac	2

MUD COMMENTS: K+Ion 24500, Polymer 2.8, Sulfite 288. Processed 6m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.08.12 @ 00:00 Hours:
Directionally drilled 311mm hole from 3055-3077mKB with surveys and rig services as required to 24:00 hours 1999.08.12.
Note #1: Changed head in #1 pump.
#2: Hole conditions good.
Note #3: Bottom hole temperature from MWD 76 degrees C at 3056mKB.
#4: Hole Drag: 20,000 daN up, 16,000 daN down.
#5: Torque: 7,500-10,500 Nm.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/08/12
DAY: 144

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Clear TEMP: 3 °C
Midnight DEPTH: 3055.00 m PROGRESS: 8.00 m
8:00 a.m. DEPTH: 3064.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Directionally drilling 311mm hole with motor and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 84541 CUMULATIVE COST: $12755429

BHA

1	Bit HP61A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.04 m WT. BELOW JARS: 16000 daN JAR HRS: 131.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2361.5

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 117000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RND	WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968	3050	82	1.4	58.50		25-28	70	8	8	BT	A	F	3	WT	TQ
26	311.0	Reed	MM9264	HP61A	15.9	15.9	15.9	3050		5	1.5	3.25		25-26	70								
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	MBT kg/m3 eq	FC mm	PV/YP	GELS 0/10	Tgl. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	NFO	°C IN/OUT
70	1485/1490	10.5	12.4	1.5	16/ 28.5	26./30.	327.80		7.450	30			1100	360	0.5	5.2	58/ 64
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
0 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	16300	35.1	63.2	61.9	117.69

SURVEYS

		AZIMUTH
0.60 °	@ 3037.40 m	40.40
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	6.25	BOP DRILL	0.25
HNDL TOOLS	2.75	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	2.75
COND MUD		TRIPPING	10.00
SURVEYING	0.25	SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	195
Lignite	4
Percol 728	
Lime	
Biocide	
Potassium	
Starpak	
Sod-Sulph	
Alcomer110	
Desco	4
Gel	4
Drispac	

MUD COMMENTS: Polymer - 2.9 kg/L, K+Ion - 25000, Sulfite - 333.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.11 @ 00:00 Hours: Directionally drilled to 3050mKB. Circulated bottoms up. Tripped for bit with flow checks. Set motor to 1.5 degrees. Serviced MWD. Slipped and cut line. Broke circulation at 791mKB, 1770mKB, 2485mKB and 3030mKB while running in. Washed 20m to bottom. No fill. Repaired pump. Rig serviced and surveyed. Drilled 311mm hole to 3055mKB to 24:00 hours 1999.08.11.

Note #1: Hole good on trip.
#2: Hole Fill: Calculated: 18.7m3, Actual: 23.38m3, Difference: 4.68m3.
#3: Hole Drag: 18,000 daN up, 12,000 daN down.
#4: Torque: 8,700-15,000 Nm.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/11
U.W.I. 0-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 143
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 3047.00 m PROGRESS: 25.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 3050.00 m 8:00 a.m. OPERATION: Tripping bit #25.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56503 CUMULATIVE COST: $12670888

1	Bit GS86F	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.07 m WT. BELOW JARS: 16000 daN JAR HRS: 125.3 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2355.3

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 117000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	O	REMARKS R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968		79	1.4	55.50		25-27	70								
										0				–									
										0				–									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

Capacity Sac/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	FV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MPO	°C IN/OUT
70	1475/1490	10.0	10.8	1.5	14/ 27.0	27./34.	327.80		7.450	30			1100	360	0.6	4.8	64/ 58
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
8 HR IN	1470 kg/m3	OUT	1210 kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15800	35.1	63.2	61.9	117.30

SURVEYS

			AZIMUTH
0.60	° @ 3008.70	m	23.30
0.50	° @ 3018.30	m	32.60
0.60	° @ 3027.90	m	35.50
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	

TIME BREAKDOWN

DRILLING	20.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	2.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	90
Lignite	6
Percol 728	
Lime	1
Biocide	1
Potassium	
Starpak	1
Sod-Sulph	
Alcomer110	
Desco	4
Gel	4
Drispac	2

MUD COMMENTS: K+Ion - 25,000, Polymer - 2.25, Sulfite - 368. Stripped 5m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

999.08.10 @ 00:00 Hours:
irectionally drilled 311mm hole to 3047mKB. Rig serviced.
urveyed and repaired pumps as required to 24:00 hours
999.0
ote # e Drag: 19,000 daN up, 13,000 daN down.
#2: Torque: 10,000-14,000 Nm.

Note #3: Bottom Hole Temperature: MWD = 76 degrees C.
#4: Hole conditions good. Cleaning well.
#5: Pump repairs: #1 - head, liner, 2 valves and 2 seats. #2 - head.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 88/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/08/10
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 142
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: High Cloud	TEMP: 6 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 3022.00 m	PROGRESS: 28.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 3030.00 m	8:00 a.m. OPERATION: Directionally drilling 311mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56689 CUMULATIVE COST: $12614385

BHA

1	Bit GS86F	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 249.07 m WT. BELOW JARS: 16000 daN JAR HRS: 102.0 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2335.1

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 115000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES 32nds 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968		54	1.5	35.25		25-27	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl mg/L	Ca mg/L	ALKALINITY MFL	MFO	°C IN/OUT
74	1475/1470	10.5	11.4	1.5	14/ 32.0	27./34.	323.40		7.350	28			1100	360	0.4	4.6	64/ 58
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15700	35.1	63.2	61.9	116.51

SURVEYS

		AZIMUTH
0.80 °	@ 2989.40 m	13.70
0.70 °	@ 2999.00 m	14.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	1.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		PRESS TEST	0.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	209
Lignite	2
Percol 728	
Lime	3
Biocide	1
Potassium	30
Soda Ash	
Sod-Sulph	1
Alcomer110	1
Corinox	1
Sulph-Acid	
Drispac	1

MUD COMMENTS: K+Ion - 25,000, Polymer - 2.8, Sulfite - 368.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.09 @ 00:00 Hours: Directionally drilled 311mm hole to 3022mKB. Rig serviced. Surveyed and repaired pumps as required to 23:59 hours 1999.08.09.

Note #1: Hole Drag: 20,000 daN up, 17,000 daN down.

#2: Torque: 9,000-11,000 Nm.

#3: Bottom Hole Temperature: MWD = 76 degrees C.

#4: Survey @ 3008.7mKB: 0.6 degrees, Azimuth 23.3.

#5: Hole conditions good. Cleaning well.

#6: Pressure tested pressure relief valves on mud pumps for August 1999. (Akita safety policy)

#7: Pump Repairs: Head, liner, valve, seat and pop valve (#1).

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
L.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/08/09
DAY: 141

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Raining TEMP: 8 °C
Midnight DEPTH: 2994.00 m PROGRESS: 26.00 m
8:00 a.m. DEPTH: 3006.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Directionally drilling 311mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 69308 CUMULATIVE COST: $12557696

BHA

1	Bit GS86F	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar
6	Drill Collar	1	XO	1	TBR	9	HWDP

1	Float sub	1	Float sub
1	XO Sub	1	XO Sub
1	TBR	1	TBR

LENGTH: 249.07 m WT. BELOW JARS: 16000 daN JAR HRS: 81.0 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2314.1

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 115000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RWD	BIT WT(1000)	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968		26	1.8	14.25		25-26	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS D/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFC	MPO	°C IN/OUT
68	1468/1474	10.5	10.4	1.5	14/ 28.0	29./32.	324.28		11.05	30			1100	300	0.6	5.6	65/ 61
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
8 HR IN 1465 kg/m3 OUT 1040 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15600	35.1	63.2	61.9	116.35

SURVEYS

		AZIMUTH
0.70 °	@ 2960.40 m	6.40
0.80 °	@ 2970.20 m	7.20
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	14.25	BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.25
COND MUD		TRIPPING	4.50
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM	1.50	W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Gel	
Percol 728	1
Lime	1
Biocide	1
Potassium	30
Soda Ash	
Sod-Sulph	1
Alcomer110	1
Corinox	1
Sulph-Acid	1
Drispac	

MUD COMMENTS: K+Ion - 24,500 Polymer - 2.24 Sulfite - 333 Stripped 5m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.08 @ 00:00 Hours:
Set mud motor at 1.83 degrees. Serviced MWD tools. Tripped bit #25 to 772mKB. Function tested MWD tool. Continued trip to 1896mKB. Broke circulation and circulated 15 minutes. Tripped bit to 2956mKB. Broke circulation and cleaned to bottom. Reamed from 2964-2968mKB with no fill on bottom. Broke in bit #25. Directionally drilled 311mm hole to 2994mKB. Rig serviced. Surveyed and repaired pumps as required to 24:00 hours 1999.08.08.

Note #1: Hole Drag: 18,000 daN up, 15,000 daN down.
#2: Torque: 9,000-11,500 Nm.
#3: Bottom Hole Temperature: MWD = 76 degrees C.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/09
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 141 DEPTH: 2994.00 m PROGRESS: 26.00 m CPA NO.: 300N616040123300

WEATHER: Raining TEMP: 8 °C
8:00 a.m. OPERATION: Directionally drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #4: Hole conditions good. Cleaning well.
#5: Bolts came loose from pony rod to crosshead #2 mud pump.
#6: Survey @ 2979.7mKB: 0.8 degrees, Azimuth 13.8.
#7: Checked all rig and camp fire extinguishers for August 1999.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/08
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 140
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Raining TEMP: 11 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2968.00 m PROGRESS: 14.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2968.00 m 8:00 a.m. OPERATION: Tripping in with bit #25.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57058 CUMULATIVE COST: $12488388

BHA

1	Bit EHP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.78 m WT. BELOW JARS: 16000 daN JAR HRS: 66.8 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2299.9

WT. ON BIT: 31000 daN ROTARY RPM: 70+35 STRING WT.: 115000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	WOB daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
24	311.0	REED	KT2950	EHP53A	15.9	15.9	15.9	2916	2968	52	0.8	66.75		30-32	70	8	8	BT	A	8	2	WT	TQ
25	311.0	SEC	726647	GS86F	15.9	15.9	15.9	2968		-296				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MIO	°C IN/OUT
67	1457/1468	10.5	10.6	1.5	16/ 27.0	27./31.	322.96		11.01	28			1100	300	0.6	5.2	68/ 63
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15600	35.1	63.2	61.9	115.71

SURVEYS

		AZIMUTH
0.80 °	@ 2941.30 m	1.20
0.70 °	@ 2950.90 m	0.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	10.25	BOP DRILL	
HNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.75	CIRCULATE	4.00
COND MUD		TRIPPING	6.50
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	378
Gel	
Percol 728	
Lime	
Biocide	1
Potassium	
Soda Ash	
Sod-Sulph	
Alcomer110	1
Corinox	1
Sulph-Acid	
Drispac	

MUD COMMENTS: K+Ion - 24,500 Polymer - 2.24 Sulfite - 333

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.07 @ 00:00 Hours:
Directionally drilled 311mm hole to 2955mKB. Circulated bottom hole sample. Directionally drilled to 2968mKB. Rig serviced. Surveyed and repaired pumps as required. Circulated bottoms up. Tripped bit #24, flow checking as required. Hole good on trip out. Function tested blind rams when out of hole. Changed out mud motor and bit to 24:00 hours 1999.08.07.

Note #1: Hole Drag: 22,000 daN up, 15,000 daN down.
#2: Torque: 8,000-18,000 Nm.
#3: Bottom Hole Temperature: MWD = 76 degrees C.
#4: Changed 2 heads. #1-1 head, #2-mud pumps.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/08
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 140 DEPTH: 2968.00 m PROGRESS: 14.00 m CPA NO.: 300N616040123300

WEATHER: Raining TEMP: 11 °C
8:00 a.m. OPERATION: Tripping in with bit #25.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #5: Mud Motors: Laid down serial #96028, picked up serial #96043.
#6: Hole Fill: Actual: 20.7m3, Calculated: 18.07m3,
Difference: 2.63m3.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/07
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 139
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: SBE | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 12 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2954.00 m | PROGRESS: 17.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2962.00 m | 8:00 a.m. OPERATION: Directionally drilling 311 mm hole.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 56883 | CUMULATIVE COST: $12431330

BHA

1	Bit EHPS3A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 268.78 m | WT. BELOW JARS: 16000 daN | JAR HRS: 56.5 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2289.7

WT. ON BIT: 31000 daN | ROTARY RPM: 70+35 | STRING WT.: 114000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES 1/32" 1	2	3	DEPTH IN	DEPTH OUT	METRE	METRE PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMG	WT 1000 daN	WT RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
24	311.0	REED	KT2950	EHPS3A	15.9	15.9	15.9	2916		38	0.7	56.50		30-32	70									
										0				-										
										0				-										

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Yield Solid kg/m3	Drill Solid kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	°C IN/OUT
72	1457/1452	11.4	10.0	1.5	16/ 27.0	28./31.	290.40		10.89	28			1200	300	0.6	4.4	68/ 65
	/				/	/											/

CENTRIFUGE: 16 HR IN 1455 kg/m3 OUT 1210 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000						PUMP NO. 2 TYPE: F-1000						PRESSURE	ANNULAR VELOCITY DP	ANNULAR VELOCITY DC	JET VELOCITY	JET HHP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN		MODEL	LINER mm	STROKE mm	SPM	m3/MIN		kPa	m/MIN	m/MIN	m/sec	
Emsco	152	254	80	1.11		Emsco	152	254	80	1.11		15600	35.1	63.2	61.9	115.08

SURVEYS

		AZIMUTH
0.70 °	@ 2922.20 m	344.00
0.70 °	@ 2931.60 m	2.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.00	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	

TOTAL HOURS: 24.00

MUD ADDITIVES

Barite	80
Gel	36
Percol 728	1
Lime	2
Biocide	1
Potassium	28
Soda Ash	1
Sod-Sulph	2
Alcomer110	2
Carinox	2
Sulph-Acid	3
Drispac	

MUD COMMENTS: K+Ion - 24,500, Polymer - 2.24, Sulfite - 288

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Reported below.)

1999.08.06 @ 00:00 hours. Directionally drilled 311 mm hole to 2956 mKB, with rig services and surveys as required to 23:59 hours, 1999.08.06.

Note #1: Hole drag: 20,000 daN up, 14,000 daN down.
#2: Torque: 10,000 Nm - 12,000 Nm.
#3: Bottom hole temp: MWD = 76 degress C.
#4: Hole conditions good. Cleaning well.
#5: Held BOP drill in drilling mode. Well secured in 80 seconds.
#6: Survey at 2941.0 mKB: 0.8 degrees and 1.2 azimuth.

SUPERVISOR: M.Rogerson D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 08/17

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/08/06
DAY: 138

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Clear TEMP: 18 °C
Midnight DEPTH: 2937.00 m PROGRESS: 13.00 m
8:00 a.m. DEPTH: 2942.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Dir. drilling 311mm hole with mud motor, MWD, Gamma Ray.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57762 CUMULATIVE COST: $12374447

BHA

1	Bit EHP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.78 m WT. BELOW JARS: 16000 daN JAR HRS: 33.5 JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2266.7

WT. ON BIT: 31000 daN ROTARY RPM: 70+35 STRING WT.: 114000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
24	311.0	REED	KT2950	EHP53A	15.9	15.9	15.9	2916		21	0.6	33.50		15-32	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	MF cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	°C IN/OUT
70	1458/1460	10.5	10.2	1.5	15/ 28.0	26./30.	292.00		10.95	28			1100	280	0.5	4.2	68/ 65
	/				/	/											/

CENTRIFUGE: 7 HR IN 1460 kg/m3 OUT 1210 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15700	35.1	63.2	61.9	115.40

SURVEYS

		AZIMUTH
0.50 °	@ 2912.50 m	346.00
0.70 °	@ 2922.70 m	344.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	44
Lignite	
Percol 728	
Lime	2
Biocide	1
Potassium	56
Desco	
Sod-Sulph	3
Alcomer110	2
Corinox	3
Sulph-Acid	
Drispac	

MUD COMMENTS: K+Ion - 25,000 Polymer - 2.52 Sulfite - 288 Bottom hole temp MWD - 76 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.05 @ 00:00 Hours:
Worked on #1 pump (changed head and increased pressure on air chamber bladder with nitrogen). Directionally drilled 311mm hole (varying weight adjustments 15,000-32,000 daN for maximum penetration) from 2924-2937mKB at 24:00 hours 1999.08.05.

Note #1: Hole Drag: 20,000 daN up, 16,000 daN down.
#2: Torque: 9,000-10,500 NM.
#3: Bottom Hole Temperature: MWD = 76 C at 2923mKB.
#4: Hole conditions good, cleaning well.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/05
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 137
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 18 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2924.00 m | PROGRESS: 8.00 m | PBTD: m | FORMATION:
6:00 a.m. DEPTH: 2928.00 m | 6:00 a.m. OPERATION: Dir. drilling 311mm hole with mudmotor(1.83) MWD & Gamma Ray

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 83466 | CUMULATIVE COST: $12916685

BHA

1	Bit EHP53A	1	Motor1.83deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 268.78 m | WT. BELOW JARS: 16000 daN | JAR HRS: 10.8 | JAR SERIAL #: 10884

TOTAL ROTATING HOURS: 2246.0

WT. ON BIT: 30000 daN | ROTARY RPM: 70+35 | STRING WT.: 113000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32nds I	II	III	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT DRN	HOURS ON BIT ROT	WT 1000 daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS 0	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757	2916	159	1.3	120.00		30-31	70	4	3	WT	A	B	I	BT	TQ
24	311.0	REED	KT2950	EHP53A	15.9	15.9	15.9	2916		8	0.7	10.75		30-32	70								
										0				-									

LAST PIPE TALLY: 2495.99 | BOARD: 2697.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	WL	pH	FC mm	Pv/Yp	GELS 0/10	Tan Sol kg/m3	Drill Solids kg/m3	SAND % by Vol	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca mg/L	ALKALINITY Mf	Pm	pHC IN/OUT
74	1460/1465	10.5	10.8	1.5	16/ 28.0	20./26.	293.00		10.98	27			1200	320	0.4	4.0	69/ 68
	/				/	/											/

CENTRIFUGE: 2 HR IN 1320 kg/m3 OUT 1030 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 MAKE	TYPE F-1000 LINER mm	STROKE mm	SPM	m3/min	PUMP NO. 2 MAKE	TYPE F-1000 LINER mm	STROKE mm	SPM	m3/min	PRESSURE kPa	ANNULAR VELOCITY DP m/min	DC m/min	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15400	35.1	63.2	61.9	115.71

SURVEYS

	AZIMUTH
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	

TIME BREAKDOWN

DRILLING	10.75	BOP DRILL	
MWDL TOOLS	2.25	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	0.25
COND MUD		TRIPPING	6.75
SURVEYING		SLIP & CUT	0.75
RUN CSG		LOGGING	
CLN TO BTM	1.00	W.O.C.	
REPAIRS	2.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	
Percol 728	
Lime	2
Biocide	1
Potassium	28
Desco	
Sod-Sulph	1
Alcomer110	
Corinox	1
Sulph-Acid	
Drispac	

MUD COMMENTS: K+Ion - 25,000 Polymer - 2.8 Sulfite - 280

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Covered Below.)

1999.08.04 @ 00:00 Hours:
Tripped out bit #23, flow checked as required. Function tested blind rams when out of hole. Changed bit, jars, set mud motor at 1.83 degrees and serviced MWD equipment. Tripped in bit #24 to 780mKB. Tested MWD tool, slipped and cut drilling line. Tripped to 2175mKB. Broke circulation and circulated 15 minutes. Continued trip, hit bridge at 2852mKB Broke circulation, reamed bridge and washed to bottom with no fill. Broke in bit #24 and directionally drilled 311mm hole to 2926mKB at 24:00 hours 1999.08.04.
Note #1: Hole Drag: 22,000 daN up, 16,000 daN down.
#2: Torque: 9,500-10,500 NM.

SUPERVISOR: M.Rogerson/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-057-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/08/05
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 137 DEPTH: 2924.00 m PROGRESS: 8.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 18 °C
8:00 a.m. OPERATION: Dir. drilling 311mm hole with mudmotor(1.83) MWD & Gamma Ray

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #3: Hole Fill: Actual: 21.64m3, Calculated: 17.72m3,
Difference: 3.92m3.
#4: Hole in good condition, bridge probably due to change in mud motor angle.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/08/04
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 136
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 14 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 2916.00 m	PROGRESS: 17.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 2916.00 m	8:00 a.m. OPERATION: Tripping into hole with bit #24.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 65900 CUMULATIVE COST: $12233219

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m WT. BELOW JARS: 16000 daN JAR HRS: 534.3 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2233.3

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 113000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757	2916	159	1.3	120.00		30-31	70	4	3	WT	A	F	I	BT	PR
24	311.0	REED		EHP53A	15.9	15.9	15.9	2916		0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Ter. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pf	°C IN/OUT
76	1460/1460	10.5	10.9	1.5	16/ 27.0	19./24.	292.00		10.95	28			1100	320	0.3	4.0	67/ 69
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15600	35.1	63.2	61.9	115.48

SURVEYS

			AZIMUTH
0.50 °	@ 2893.50 m		321.20
0.50 °	@ 2901.40 m		335.30
°	@ m		
°	@ m		
°	@ m		
°	@ m		
°	@ m		
°	@ m		
°	@ m		
°	@ m		
°	@ m		

TIME BREAKDOWN

DRILLING	14.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	1.25	TRIPPING	6.25
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	1.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	91
Lignite	
Percol 728	
Lime	3
Biocide	1
Potassium	28
Desco	1
Sod-Sulph	2
Alcomer110	1
Corinox	2
Sulph-Acid	
Drispac	

MUD COMMENTS: K+Ion - 25000, Polymer - 2.9, Sulfite - 300.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.03 @ 00:00 Hours:
Directionally drilled 311mm hole, surveying as required, from 2899-2916mKB. Circulated bottoms up and tripped out of hole to change bit to 24:00 hours 1999.08.03.

Note 1: Hole Drag: 15,000 daN up, 15,000 daN down.
Note 2: Torque: 12,000-14,500 NM.
3: Bottom Hole Temperature: 76 degrees C.
4: Hole condition good, no tight hole on trip out.
5: Flow checks performed as required.
6: One cone on Bit #23 was seized, 2 cones had seal failures and were just hanging on.

SUPERVISOR: D. Solberg/G. Mills PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 19/08/03
DAY: 135

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Clear TEMP: 12 °C
Midnight DEPTH: 2899.00 m PROGRESS: 30.00 m
8:00 a.m. DEPTH: 2912.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Drilling 311mm hole with mud motor (1.5 bend) MWD, Gamma Ray

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60924 CUMULATIVE COST: $12167319

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m WT. BELOW JARS: 16000 daN JAR HRS: 520.0 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2219.1

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 113000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS D	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		142	1.3	105.75		30-31	70								
										0				–									
										0				–									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFL	MFO	°C IN/OUT
77	1450/1450	10.5	11.9	1.5	17/ 27.0	19./23.	290.00		7.250	30			1100	320	0.5	4.5	59/ 68
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	15600	35.1	63.2	61.9	114.69

SURVEYS

			AZIMUTH
1.20	@	2855.00 m	324.80
1.20	@	2864.60 m	317.80
1.00	@	2874.10 m	315.40
0.70	@	2883.70 m	316.80
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	21.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	281
Lignite	4
Percol 728	
Lime	4
Biocide	1
Potassium	56
Desco	
Sod-Sulph	3
Alcomer110	1
Corinox	3
Sulph-Acid	
Drispac	2

MUD COMMENTS: K+Ion - 24500, Polymer - 2.8, Sulfite - 300.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.02 @ 00:00 Hours:
Directionally drilled 311mm hole, surveying as required, from 2869-2899mKB at 24:00 hours 1999.08.02.

Note #1: Hole Drag: 18,000 daN up, 15,000 daN down.
#2: Torque: 12,000-16,000 NM
Note #3: Hole condition good.
#4: Bottom Hole Temperature: 74 degrees C @ 2890mKB.

SUPERVISOR: D. Solberg/G. Mills PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/08/02
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 134
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 8 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2869.00 m | PROGRESS: 29.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2878.00 m | 8:00 a.m. OPERATION: Drilling 311 mm hole.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 63023 | CUMULATIVE COST: $12106395

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m | WT. BELOW JARS: 16000 daN | JAR HRS: 498.5 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2197.6

WT. ON BIT: 30000 daN | ROTARY RPM: 70+35 | STRING WT.: 112000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		112	1.3	84.25		30-31	70								
										0				–									
										0				–									

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
82	1450/1450	10.5	11.9	1.5	18/ 29.0	23./26.	293.00		0.008	30			1100	340	0.4	4.0	/ 63
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
0 HR IN kg/m3 OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	114.69

SURVEYS

	AZIMUTH
1.10° @ 2826.30 m	7.90
1.10° @ 2836.00 m	353.80
1.10° @ 2845.50 m	340.70
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	200
Lignite	6
Percol 728	3
Lime	3
Biocide	1
Potassium	72
Desco	3
Sod-Sulph	3
Alcomer110	1
Corinox	3
Sulph-Acid	2
Drispac	3

MUD COMMENTS: K+Ion - 24000, Polymer - 2.8, Sulfite - 228.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.08.01 @00:00 Hours.
Directionally drilled 311 mm hole surveying as required,
from 2840mKB to 2869mKB at 24:00 hours 1999.08.01.

Note(1)Hole drag 15,000 daN up, 12,000 daN down. Torque
Note(2)Torque 10,000-14,500 Nm.
Note(3)BHT 74 degrees C @ 2855 m KB.
Note(4)Hole condition:good.

SUPERVISOR: D. Solberg/G. Mills | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/08/01
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 133
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 6 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 2840.00 m	PROGRESS: 28.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 2848.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with mud motor(1.5 bend), MWD, GAMMA RAY	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 85729 CUMULATIVE COST: $12043372

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m WT. BELOW JARS: 16000 daN JAR HRS: 476.0 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2175.1

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 107000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		83	1.3	61.75		30-31	70								
										0				–									
										0				–									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Mfo	°C IN/OUT
87	1450/1450	10.5	11.5	1.5	17/ 33.0	23./27.	293.00		0.008	32			1100	360	0.4	4.0	/ 63
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
4 HR IN	1450 kg/m3	OUT	2280 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	114.69

SURVEYS

		AZIMUTH
0.80 °	@ 2807.00 m	7.40
1.00 °	@ 2816.60 m	14.70
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.25	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	1.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	204
Lignite	4
Percol 728	
Lime	4
Biocide	2
Potassium	112
Desco	2
Sod-Sulph	4
Alcomer110	1
Corinox	4
Starpac	1
Drispac	3

MUD COMMENTS: K+Ion - 25000, Polymer - 3.2, Sulfite - 300.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.31 @ 00:00 Hours:

Directionally drilled 311 mm hole,surveying as required, from 2812-2840mKB at 24:00 hours 1999.07.31.

Note(1) Hole condition good.

Note(2) Hole drag 20,000 daN up, 14,000 daN down. Torque 11,000 Nm to 12,000 Nm.

Note(3) Bottom hole temp 72 degrees @ 2840mKB.

Note(4) Held safety meetings with crews on safe vehicle operation.

Note(5) Rotated 20m, Slid 8m.

Note(6) Repaired heads in both pumps.

SUPERVISOR: D. Solberg/G. Mills PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/07/31
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 132
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 4 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 2812.00 m	PROGRESS: 32.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 2819.00 m	8:00 a.m. OPERATION: Drilling 311 mm with mud motor(1.5 bend),MWD,GAMMA RAY.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60441 CUMULATIVE COST: $11957643

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m WT. BELOW JARS: 16000 daN JAR HRS: 454.7 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2153.9

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 107000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		55	1.4	40.50		30-30	70								
										0				–									
										0				–									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
87	1450/1450	10.2	11.8	1.5	18/ 32.0	22./27.	293.00		0.008	32			1100	240	0.3	3.1	/ 60
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN	1450 kg/m3	OUT	2310 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	114.69

SURVEYS

	AZIMUTH
0.50° @ 2768.90 m	23.40
0.40° @ 2778.90 m	7.80
0.60° @ 2787.80 m	9.70
0.80° @ 2797.40 m	9.20
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	128
Lignite	12
Percol 728	1
Lime	3
Biocide	1
Potassium	56
Desco	4
Sod-Sulph	4
Alcomer110	1
Corinox	4
Sulph-Acid	1
Drispac	4

MUD COMMENTS: K+Ion - 24500, Polymer - 3.3, Sulfite - 288.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.30 @ 00:00 hours:
Directionally drilled 311 mm hole,surveying as required,
from 2780-2812mKB at 24:00 hours 1999.07.30.

Note(1) Hole drag: 18,000 daN up, 12,000 daN down.
Note(2) Torque: 10,000-11,000 Nm.
Note(3) Hole condition good.
Note(4) Bottom hole temperature(MWD) 70 degrees Celsius at 2812mKB.
Note(5) Minor vehicle accident at location (See attached reports). Vehicle damage only.

SUPERVISOR: D. Solberg/G. Mills PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

July 30/99.

APPROXIMATELY 1900 HRS. GRANT MILLS AND MYSELF WERE returning from camp after supper. WE drove ON to LEASE and were in the process of going to back up adjacent to WELLSITE. CREW TRUCK WAS at the foot of DOG HOUSE STAIRS. A CREW change had just taken place. THE CREW truck driven by MIKE GUERIN backed up STRIKING SUBURBAN in right rear CORNER WITH RIGHT rear fender and bumper of crew truck.

DAMAGE TO SUBURBAN: TAILLIGHT, fender around tailight, and bending lower right hand door hinge.

Damage to CREWTRUCK: rear bumper and rear right hand fender.

Doug Dalberg

AKITA DRILLING LTD.

ACCIDENT/INCIDENT REPORT

Rig number: 58	LSD: Forest Oil N-61	Date: July 30/99	Time: 1900hr ☐ AM ☐ PM

☑ Mobile equipment ☐ Property damage ☐ Fire ☐ Personnel

Location → ☐ Rig ☐ Camp ☐ Road ☑ Lease

☐ Other

☐ Lost time ☐ Medical aid ☐ First aid

Name of injured:	Age:	Date of birth:
Marital status:	S.I.N.:	
Position:	Experience:	
Type of injury:		

Method of transportation to medical facility:

Accompanied by:

Doctor's name:	Hospital:

Rig Manager:	Driller on tour:

CREW MEMBERS (INDICATE WITNESS TO ACCIDENT/INCIDENT)

1 Mike Guerin.
2 Allan Lickoch.
3 Joe Rodh.
4 Doug Solberg. Forest Oil
5 Grant Mills.
6

DESCRIPTION

How accident/incident occurred (give relevant injury and treatment details):

Suburban driven by Doug Solberg. pulled onto Lease stopped at the time but was going to back up to his shack.
The Crew Truck driven by Mike Guerin backed up from the doghouse stairs sticking back end right hand rear corner. of Suburban. and the Right hand rear fender and bumper on the crew truck.

ANALYSIS

Immediate causes:

Damage to Both. Vehicles.

Basic causes:

Not looking back while backing up.

PREVENTION

Preventive action:

Be aware of your Surroundings.
Keep windows + Mirrors Clean.

☑ Preventable ☐ Non-preventable

Frequency potential ☐ Frequent ☐ Occasional ☐ Rare | Severity Potential ☐ Major ☐ Serious ☐ Minor

REVIEW

Investigating Supervisor: Signature: Dave Lamek Date: July 30/99

Repair costs	
Down time	
Equipment damage	
Total	

Report taken by:

WHITE - HEAD OFFICE COPY CANARY - NISKU OFFICE COPY PINK - RIG COPY

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/30
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 131
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: 7.9 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2780.00 m | PROGRESS: 23.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2790.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 113925 | CUMULATIVE COST: $11897202

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m | WT. BELOW JARS: 16000 daN | JAR HRS: 432.2 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2131.4

WT. ON BIT: 30000 daN | ROTARY RPM: 70+35 | STRING WT.: 105000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					A	B	C	IN	OUT			DRL	MWD	WT daN	RPM	I	O	D	L	B	G	O	R
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		23	1.3	18.00		30-30	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MUT	ALKALINITY MFO	°C IN/OUT
80	1460/1460	10.1	12.8	1.5	17/ 29.0	19./24.	293.00		0.010	30			1100	240	0.4	3.9	/ 58
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	115.48

SURVEYS

		AZIMUTH
0.40°	@ 2749.90 m	39.80
0.40°	@ 2759.40 m	15.90
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	18.00	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.50	TRIPPING	3.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM	0.50	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	20
Lignite	8
Percol 728	1
Lime	
Biocide	1
Potassium	20
Desco	4
Sod-Sulph	1
Alcomer	1
Corinox	1
Starpak	
Drispac	1

MUD COMMENTS: K+Ion - 24500, Polymer - 3.0, Sulfite - 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.29 @ 00:00 Hours:
Tripped into hole to 2720mKB. Function tested MWD tool at 700mKB and broke circulation at 1850mKB. Cleaned to bottom, [illegible] fill. Directionally drilled 311mm hole, surveying as required, from 2757-2780mKB at 24:00 hours 1999.07.29.

Note #1: Hole Drag: 16,000 daN up, 12,000 daN down.
#2: Torque: 10,000-11,000 NM.
#3: Hole condition good.
#4: Function tested upper pipe rams, closed in 6 seconds.
#5: Bottom Hole Temperature: 70 degrees C at 2780mKB.

SUPERVISOR: D. Solberg/G. Mills | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/07/29
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 130
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast, light rain	TEMP: 8.1 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 2757.00 m	PROGRESS: 16.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 2761.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with motor (1.5 deg bend) MWD, Gamma Ray	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 92610 CUMULATIVE COST: $11783277

BHA

1	Bit EHP53A	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.80 m WT. BELOW JARS: 16000 daN JAR HRS: 414.2 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2113.4

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 105000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RWD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579	2757	178	1.7	102.50		29-31	70	2	3	BT	H3	6	I	WT	PR
23	311.0	REED	LX8273	EHP53A	15.9	15.9	15.9	2757		0				–									
										0				–									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
80	1460/1465	10.5	11.2	1.5	17/ 30.0	21./25.	293.00		0.015	31			1100	240	0.4	4.1	/ 57
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
2 HR IN	1460 kg/m3	OUT	2200 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	GPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	115.71

SURVEYS

	AZIMUTH
0.10° @ 2730.90 m	80.80
0.30° @ 2740.20 m	75.20
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	8.75	BOP DRILL	
HNDL TOOLS	3.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	1.75	TRIPPING	9.00
SURVEYING	0.50	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	162
Lignite	
Percol 728	
Lime	3
Chemcide	
Potassium	28
Desco	
Sod-Sulph	1
Gypsum	
Corinox	2
Starpak	
Drispac	

MUD COMMENTS: K+Ion - 26000, Polymer - 3.1, Sulfite - 226. Stripped 5m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.28 @ 00:00 Hours:
Directionally drilled 311mm hole, surveying as required, from 2741-2757mKB. Circulated bottoms up. Tripped out of hole. Changed bit and mud motor. Serviced MWD and tripped into hole to 24:00 hours 1999.07.28.

Note: Hole Drag: 20,000 daN up, 15,000 daN down.
Torque: 11,000-15,000 NM.
Hole good on trip. Flow checks performed as required.
Function tested blind rams while out of hole, closing time 6 seconds.

SUPERVISOR: D. Solberg/G. Mills PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/07/28
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 129
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Wind, Rain	TEMP: 7 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 2741.00 m	PROGRESS: 43.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 2755.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 65604 CUMULATIVE COST: $11690667

BHA

1	Bit GT28	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.73 m WT. BELOW JARS: 16000 daN JAR HRS: 405.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2104.7

WT. ON BIT: 30000 daN ROTARY RPM: 70+35 STRING WT.: 105000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579		162	1.7	93.75		29-31	70									
										0				-										
										0				-										

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10'	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY PM	ALKALINITY PMP	°C IN/OUT
80	1460/1460	10.3	12.1	1.5	17/ 31.0	22./26.	200.00		0.015	33			1100	280	0.4	3.9	/ 57
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN 1460 kg/m3 OUT 2200 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	115.48

SURVEYS

	AZIMUTH
0.40 ° @ 2702.60 m	46.60
0.10 ° @ 2711.70 m	53.80
0.20 ° @ 2721.30 m	18.70
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	130
Lignite	6
Percol 728	1
Lime	4
Chemcide	1
Potassium	56
Desco	3
Sod-Sulph	4
Gypsum	
Corinox	3
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 25000, Polymer - 3.1, Sulfite - 288. Stripped 14m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.27 @ 00:00 Hours:
Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required from 2698-2741mKB at 24:00 hours 1999.07.27.

Note #1: Hole condition very good, just drill cuttings coming over shaker.

Note #2: Bottom Hole Temperature: 70 degree C.

#3: Fuctioned bottom pipe, closed in 8 seconds, remote choke functioned.

#4: Hole Drag: 15,000 daN up, 12,000 daN down, Torque: 10,000-13,000 NM.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/27
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 128
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: 8 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2698.00 m | PROGRESS: 39.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2712.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 55414 | CUMULATIVE COST: $11625063

BHA

1	Bit GT28	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.73 m | WT. BELOW JARS: 16000 daN | JAR HRS: 381.5 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2082.2

WT. ON BIT: 30000 daN | ROTARY RPM: 70+35 | STRING WT.: 103000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579		119	1.7	71.25		29-31	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY WFL	MFO	°C IN/OUT
80	1450/1450	10.3	11.8	1.5	17/ 30.0	21./25.	200.00		0.015	30			1100	240	0.4	4.1	/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DECASSER	TOTAL MUD DUMPED
4 HR IN	1455 kg/m3	OUT	2200 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	114.69

SURVEYS

			AZIMUTH
0.30	@	2652.20 m	52.20
0.30	@	2664.80 m	58.70
0.30	@	2674.50 m	79.90
0.40	@	2683.50 m	42.90
0.10	@	2693.00 m	73.90
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Soda Ash	
Lignite	8
Percol 728	
Lime	6
Chemcide	1
Potassium	24
Desco	4
Sod-Sulph	4
Gypsum	2
Corinox	3
Starpak	3
Drispac	2

MUD COMMENTS: K+Ion - 26000, Polymer - 3.0, Sulfite - 256. Stripped 9m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.26 @ 00:00 Hours:
Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required to 2698mKB at 24:00 hours 1999.07.26.
Note 1: Hole condition very good, just drill cuttings coming over shaker. Cuttings are sticky (Bentonitic)
Note 2: Bottom Hole Temperature: 70 degrees C at 2683mKB.
3: Held fire drill at camp with Akita and Beaver personnel.
4: Fuctioned top pipe rams, 8 seconds to close. Annular, 18 seconds to close.
5: Hole Drag: 16,000 daN up, 12,000 daN down. Torque: 10,000-12,500 NM.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/26
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 127
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast, Wind, Rain | TEMP: 5 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2659.00 m | PROGRESS: 39.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2673.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 58124 | CUMULATIVE COST: $11569649

BHA

1	Bit GT28	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.73 m | WT. BELOW JARS: 16000 daN | JAR HRS: 357.5 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2060.0

WT. ON BIT: 28000 daN | ROTARY RPM: 70+35 | STRING WT.: 103000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS D	R
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478	2579	101	1.8	57.00		22-25	70	1	2	RG	H	E	I	NO	PR
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579		80	1.6	49.00		29-31	70								
										0				-									

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MFO	°C IN/OUT
86	1455/1455	10.3	11.2	1.5	17/ 31.0	21./26.	200.00		0.010	30			1100	240	0.5	4.1	/
	/				/	/											/

CENTRIFUGE: 4 HR IN 1260 kg/m3 OUT 2160 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14800	35.1	63.2	61.9	115.08

SURVEYS

		AZIMUTH
0.20°	@ 2617.00 m	310.00
0.10°	@ 2626.40 m	313.70
0.30°	@ 2636.20 m	9.60
0.10°	@ 2645.60 m	346.40
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Soda Ash	
Lignite	6
Percol 728	1
Lime	9
Chemcide	1
Potassium	86
Desco	3
Sod-Sulph	4
Gypsum	
Corinox	3
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 24500, Polymer - 3.2, Sulfite - 200. Stripped 7m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.25 @ 00:00 Hours:
Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required to 2659mKB at 24:00 hours 1999.07.25.
Note #1: Hole condition very good, just drill cuttings coming over shaker.
#2: Bottom Hole Temperature: 68 degrees C.
Note #3: BOP drill with Akita Crew was held.
#4: Fuctioned annular, 18 seconds to close. Lower pipe rams, 6 seconds to close.
#5: Hole drag: 17,000 daN Up, 13,000 daN down. Torque: 10,000-12,500 NM.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL PLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/07/25
DAY: 126
LICENCE NO.: 1863
SPUD DATE: 99/05/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: °C
Midnight DEPTH: 2620.00 m PROGRESS: 34.00 m
8:00 a.m. DEPTH: 2631.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57254 CUMULATIVE COST: $11511525

BHA

1	Bit GT28	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.73 m WT. BELOW JARS: 16000 daN JAR HRS: 333.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2037.8

WT. ON BIT: 28000 daN ROTARY RPM: 70+35 STRING WT.: 102000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES m/s 1	2	3	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMG	WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478	2579	101	1.8	57.00		22-25	70	1	2	RG	H	E	I	NO	PR
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579		41	1.5	26.75		29-31	70								
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	PC mm	PV/YP	SOLS O/B	TOT SOL kg/m3	DRIL SOL kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MPT	MFO	°C IN/OUT
78	1455/1455	10.3	11.4	1.5	17/ 27.0	21./24.	200.00		0.010	30			1100	200	0.3	3.2	/ 56
	/				/	/											/

CENTRIFUGE: 6 HR IN 1460 kg/m3 OUT 2600 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DECASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	14600	35.1	63.2	61.9	115.08

SURVEYS

		AZIMUTH
0.30°	@ 2578.70 m	187.80
0.20°	@ 2588.10 m	195.00
0.20°	@ 2597.80 m	332.00
0.10°	@ 2607.30 m	120.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		LOGGING	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Soda Ash	1
Lignite	4
Percol 728	1
Lime	8
Chemicide	1
Potassium	56
Desco	2
Sod-Sulph	3
Gypsum	2
Corinox	3
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 26,000, Polymer - 2.9, Sulfite - 200. Stripped 8m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.24 @ 00:00 hours. Drilled 311mm hole to 2620m with mud motor @ 1.5 degree bend with rig services and surveys as required to 23:59 hours, 1999.07.24.

Note #1: Hole condition very good. Only cuttings over shaker
#2: Bottom hole temperature: 60 degrees C.
#3: Checked all fire extinguishers.
#3: Functioned Lower Pipe Rams, 8 seconds to close.
#4: Functioned Upper Pipe Rams, 6 seconds to close.
#5: Held fire drill at camp with Akita and Beaver personnel.
#6: Hole Drag: 18,000daN up. 10,000daN down.
#7: Torque: 9,500Nm to 10,500Nm.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/24
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 125
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: -.6 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2586.00 m | PROGRESS: 6.68 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2599.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor, MWD and Gamma Ray.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 69330 | CUMULATIVE COST: $11454271

BHA

1	Bit GT28	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	XO	1	TBR	9	HWDP	1	TBR

LENGTH: 248.73 m | WT. BELOW JARS: 16000 daN | JAR HRS: 309.5 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2015.3

WT. ON BIT: 28000 daN | ROTARY RPM: 70+35 | STRING WT.: 102000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	BIT WEIGHT	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478		101	1.8	57.00		22-25	70	1	2	RG	H	E	I	NO	PR
22	311.0	HWJL	L72CT	GT28	15.9	15.9	15.9	2579		7	1.7	4.24		27-29	70								
										0				-									

LAST PIPE TALLY: 2495.99 | BOARD: 2497.27 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	TAU 0 Pa	OIL SAND %	SAND %	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	CaCl ppm	ALKALINITY MF	ALKALINITY PM	°C IN/OUT
78	1475/1475	10.5	10.5	1.5	18/ 30.0	22./26.	200.00		0.015	38			1100	200	0.3	3.2	/ 55
	/				/	/											/

CENTRIFUGE: 2 HR IN 1475 kg/m3 OUT 2600 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14500	35.1	63.2	15.5	7.29

SURVEYS

		AZIMUTH
0.10 °	@ 2569.30 m	157.60
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	4.25	BOP DRILL	
HNDL TOOLS	2.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.75	TRIPPING	11.00
SURVEYING	0.25	SLIP & CUT	0.75
RUN CSG		LOGGING	3.00
CLN TO BTM	0.50	W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	245
Lignite	3
Sulph-Acid	
Lime	
Chemcide	
Potassium	
Defoam xl	
Sod-Sulph	1
Gypsum	
Corinox	1
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 25,000, Polymer - 2.9, Sulfite - 200. BHT 60 Deg. C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Reported below.)

1999.07.23 @ 00:00 hours.
Tripped for Bit. Logged well with Gamma Ray. Intervals: 1090mKB to 1130mKB and 935mKB to 965mKB. Changed out GTH28 bit and Gamma Ray tool. Tripped in hole to 761mKB. Slipped and cut line. Worked on torque track. Tripped in hole. Washed 20m to bottom. No Fill. Drilled 311mm hole to 2586mKB with mud motor @ 1.5 degree bend and surveying as required to 23:59 hours, 1999.07.23.

Note #1: Hole in very good condition on trip.
#2: Trip Fill Record: Calculated - 15.19m3, Measured - 17.29m3.
#3: Possible key seat at 1998mKB.

SUPERVISOR: B.Shudra J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: SBE

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/07/23
DAY: 124

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Overcast and Rain TEMP: 4 °C
Midnight DEPTH: 2579.52 m PROGRESS: 35.52 m
8:00 a.m. DEPTH: 2579.52 m 8:00 a.m. OPERATION: Tripping out bit #21.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57462 CUMULATIVE COST: $11384941

BHA

1	Bit GS84F	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m WT. BELOW JARS: 16000 daN JAR HRS: 285.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 2011.1

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 102000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		METRES	METRES PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL	ROT	WT daN	RPM	1	2	3	4	5	6	7	8
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478	2579	101	1.8	57.00		22-25	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY kg/m3 OUT	pH	WL ml/30min	FC mm	RV/YP	GELS Pa/Pa	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MPI	ALKALINITY MFO	°C IN/OUT
77	1455/1455	10.5	12.2	1.5	17/ 28.0	23./25	200.00		0.015	28			1000	240	0.3	3.2	/
	/				/	/											/

CENTRIFUGE: 4 HR IN 1450 kg/m3 OUT 2290 kg/m3
DESILTER: HR OUT kg/m3
DESANDER: HR OUT kg/m3
DEGASSER: HR OUT kg/m3
TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	ANNULAR VELOCITY DC m/MIN	JET VELOCITY m/sec	JET HHP
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN					
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14200	35.1	63.2		0.00

SURVEYS

	AZIMUTH
0.30° @ 2548.90 m	186.50
0.30° @ 2558.00 m	143.00
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	20.75	BOP DRILL	
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	1.50	TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	
Sulph-Acid	
Lime	3
Chemcide	2
Potassium	65
Defoam xl	1
Soda-Sulph	2
Gypsum	2
Corinox	2
Starpak	1
Briapac	1

MUD COMMENTS: K+Ion - 25000, Polymer - 2.9, Sulfite - 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.07.22 at 00:00 hours.
Drilled 311mm hole with mud motor (1.5 degree) bend, surveying as required to a depth 2579.5mKB. Bit played out. Circulated bottom hole sample. Mixed barite to 24:00 hours 1999.07.22.
NOTE #1: Hole condition very good, just drill cutting coming over shaker.
#2: Functioned Bottom Pipe Rams closed in 8 seconds. Hydril closed in 18 seconds.
#3: Bottom hole tempture 66 degrees C.
#4: Hole Drag: 15,000 daN up, 12,000 daN down. Torque: 9000-12,000 NM.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/23
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 124 DEPTH: 2579.52 m PROGRESS: 35.52 m CPA NO.: 300N616040123300

WEATHER: Overcast and Rain TEMP: 4 °c
8:00 a.m. OPERATION: Tripping out bit #21.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

#5: Drilled gas: 120 units, background: 60 units.

REPORTED BY: B.Shudra J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 94/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/22
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 123
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 16 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2544.00 m PROGRESS: 44.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2558.00 m 8:00 a.m. OPERATION: Circulating up bottom hole sample.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 120093 CUMULATIVE COST: $11327479

BHA

1	Bit GS84F	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m WT. BELOW JARS: 16000 daN JAR HRS: 237.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1990.4

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 102000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478		66	1.8	36.25		22-25	70								
										0				-									
										0				-									

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
73	1450/1450	10.5	12.2	1.5	16/ 27.0	22./25.	200.00		0.015	28			1000	320	0.3	3.2	/ 56
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
8 HR IN	1455 kg/m3	OUT	2300 kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14200	35.1	63.2	61.9	114.69

SURVEYS

	AZIMUTH
0.90° @ 2491.90 m	202.80
0.80° @ 2501.60 m	188.90
0.60° @ 2511.30 m	180.30
0.40° @ 2520.40 m	171.60
0.40° @ 2539.40 m	146.50
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	37
Lignite	3
Sulph-Acid	
Lime	3
Chemcide	1
Potassium	60
Alcomer110	1
Sod-Sulph	2
Corinox	2
Starpak	4
Drispac	2

MUD COMMENTS: K+Ion - 24500, Polymer - 2.9, Sulfite - 352. Stripped 10 m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.21 At 00:00 Hours.
Drilled 311 mm hole with mud motor (1.5 degree bend), surveying as required from 2500-2544mKB at 24:00 Hours 1999.07.21.
NOTE #1: Hole condition very good, just drill cutting coming over shaker.
#2: Functioned Top Pipe Rams, closed in 6 seconds. Hydril closed in 20 seconds.
#3: Bottom hole tempture 66 degrees C.
#4: Hole Drag 14,000 daN up, 12,000 daN down, Torque 9000-12,000 NM.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/22
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 123 DEPTH: 2544.00 m PROGRESS: 44.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 16 °C
8:00 a.m. OPERATION: Circulating up bottom hole sample.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

#5: Drilled gas 650 units at 2536mKB, background 100 units.

REPORTED BY: B.Shudra J.Brazel

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/21
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 122
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 13 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2500.00 m PROGRESS: 22.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2511.00 m 8:00 a.m. OPERATION: Drilling 311mm hole with motor(1.5 degree), MWD & Gamma Ray.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60421 CUMULATIVE COST: $11207386

BHA

1	Bit GS84F	1	Motor1.5 Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m WT. BELOW JARS: 16000 daN JAR HRS: 237.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1968.2

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 101000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32nds 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284	2422	138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ
20	311.0	HW	E83YS	GTP28D	15.9	15.9	15.9	2422	2478	56	1.4	40.50		22-28	70	5	8	BT	H	E	2	WT	TQ
21	311.0	Sec.	729282	GS84F	15.9	15.9	15.9	2478		22	1.6	14.00		22-25	70								

LAST PIPE TALLY: 2495.99 BOARD: 2497.27 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
73	1457/1457	10.5	11.8	2.0	16/ 28.0	25./27.	200.00		0.015	25			1000	320	0.3	3.4	/
	/				/	/											/

CENTRIFUGE			DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
10 HR IN	kg/m3 OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	14200	35.1	63.2	61.9	115.24

SURVEYS

			AZIMUTH
0.90	@	2472.60 m	182.60
1.00	@	2482.30 m	198.50
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	14.00	BOP DRILL	
HNDL TOOLS	1.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.25
COND MUD		TRIPPING	7.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	
Sulph-Acid	
Lime	
Gypsum	3
Potassium	30
Alcomer110	
Sod-Sulph	1
Chemcide	
Corinox	1
Starpak	
Drispac	

MUD COMMENTS: K+Ion - 25000, Polymer - 2.4, Sulfite - 288. Stripped 5 m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.07.20 At 00:00 Hours.
Finished strapping out. Flow checked. Set motor to 1.5 degree. Made up bit #21. Strapped in with flow checks. tested MWD. Broke circulation 3 times running in. Directionally drilled, (19m rotating, 3m sliding) surveyed and held rig services from 2478-2500mKB at 24:00 Hours

1999.07.20.
Note #1: Hole drag: 14,000 daN up, 13,000 daN down. Torque 8000 to 10,000 NM.
#2: Hole temperature at 2482.3mKB, survey 62 degree C.
#3: Calculated hole fill: 14.81m3, actual fill: 16.17m3
#4: Hole good on trip, no fill.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 88/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/21
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 122 DEPTH: 2500.00 m PROGRESS: 22.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 13 °C
8:00 a.m. OPERATION: Drilling 311mm hole with motor(1.5 degree), MWD & Gamma Ray.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

#5: Blind rams closed in 7 seconds, lower pipe rams closed in 8 seconds.

REPORTED BY: M.Rogerson J.Brazel

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/07/20
DAY: 121
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Cloudy TEMP: 13 °C
Midnight DEPTH: 2478.00 m PROGRESS: 22.00 m
8:00 a.m. DEPTH: 2478.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Running in with bit #21(GS84F), mud motor (1.5 deg. set).

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 67633 CUMULATIVE COST: $11146965

BHA

1	Bit GTP28D	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m WT. BELOW JARS: 16000 daN JAR HRS: 223.5 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1954.2

WT. ON BIT: 28000 daN ROTARY RPM: 70+35 STRING WT.: 99000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD.	WT daN	RPM	1	O	D	L	B	G	O	R
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284	2422	138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ
20	311.0	HW	E83YS	GTP28D	15.9	15.9	15.9	2422	2478	56	1.4	40.50		22-28	70	5	8	BT	H	E	2	WT	TQ

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Visc@by Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
72	1450/1450	10.5	11.0	2.0	17/ 27.0	26./28.	180.00		0.015	24			1200	280	0.4	3.8	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
4 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	83	1.15	Emsco	152	254	83	1.15	14800	36.4	65.5		0.00

SURVEYS

	AZIMUTH
0.40° @ 2453.70 m	156.40
0.80° @ 2463.00 m	185.10
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	16.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	2.00
COND MUD		TRIPPING	4.50
SURVEYING	0.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	241
Lignite	3
Sulph-Acid	
Lime	1
Percol 728	
Potassium	30
Alcomer110	
Sod-Sulph	
Chemcide	
Corinox	
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 25000, Polymer - 2.4, Sulfite - 340.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.19 At 00:00 Hours.
Directionally drilled, rotating, not sliding with rig services and surveys, from 2456-2478mKB. Circulated bottoms up. Conducted flow checks. Strapped out for new bit. To 24:00 Hours 1999.07.19.
Note #1: Hole drag, 10,000 daN up, 12,000 daN down.
#2: Torque, 8000 to 12,000 NM.
#3: Bottom hole temperature 63 deg.C at 2463mKB (MWD).
#4: Hole in good condition pulling out.
#5: Functioned in annular. Closed 22 seconds. Top pipe rams closed in 8 seconds.
#6: Lower Besa River Shale at 2473mKB.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/19
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 120
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Cloudy | TEMP: 8.0 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2456.00 m | PROGRESS: 26.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2464.00 m | 8:00 a.m. OPERATION: Drill 311mm hole with motor(1.83) MWD & Gamma Ray.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 64152 | CUMULATIVE COST: $11079332

BHA

1	Bit GTP28D	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m | WT. BELOW JARS: 16000 daN | JAR HRS: 207.5 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1938.0

WT. ON BIT: 27000 daN | ROTARY RPM: 70+35 | STRING WT.: 99000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RWD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284	2422	138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ
20	311.0	HW	E83YS	GTP28D	15.9	15.9	15.9	2422		34	1.4	24.25		22-24	70								

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sal. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
73	1452/1457	10.5	11.0	1.5	16/ 27.0	26./28.	180.00		0.015	25			1200	280	0.4	3.8	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
7 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	83	1.15	Emsco	152	254	83	1.15	15000	36.4	65.5	64.1	127.98

SURVEYS

			AZIMUTH
1.20 °	@ 2424.90 m		23.10
1.10 °	@ 2434.30 m		24.90
0.40 °	@ 2444.00 m		31.80
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	20.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	2.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	100
Gypsum	5
Sulph-Acid	1
Lime	1
Percol 728	1
Potassium	24
Alcomer110	1
Sod-Sulph	1
Chemcide	
Corinox	1
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 25,500, Polymer - 2.24, Sulfite - 280.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.07.18 At 00:00 Hours.
Directionally drilled 311mm hole with repair to pumps, rig services and surveys, from 2430-2456mKB at 24:00 Hours 1999.07.18.
Note #1: Hole conditions good, very few cavings.
#2: Slid 10m total for the day.
#3: Hole drag: 14,000 daN up, 11,000 daN down.
#4: Torque: 8000 to 12,000 Nm.
#5: Diesel on location: 494,500 litres, gasoline: 103,000 litres.

SUPERVISOR: M.Rogerson J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/18
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 119
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 11 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2430.00 m PROGRESS: 8.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2438.00 m 6:00 a.m. OPERATION: Directionally drilling 311mm hole with motor(1.83) and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 69123 CUMULATIVE COST: $11015180

BHA

1	Bit GTP28D	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.08 m WT. BELOW JARS: 16000 daN JAR HRS: 186.8 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1917.3

WT. ON BIT: 24000 daN ROTARY RPM: 70+35 STRING WT.: 98000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284	2422	138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ
20	311.0	HW	E83YS	GTP28D	15.9	15.9	15.9	2422		8	2.3	3.50		22-24	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
70	1450/1450	10.0	11.0	1.5	17/ 27.0	17./24.	200.00		0.015	25			1200	280	0.3	3.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	114.69

SURVEYS

			AZIMUTH
1.00	@	2415.30 m	27.10
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	3.50	BOP DRILL	
HNDL TOOLS	8.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	1.00
COND MUD		TRIPPING	6.75
SURVEYING	0.25	SLIP & CUT	0.75
RUN CSG		PRESS TEST	
CLN TO BTM	3.00	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	25
Lignite	
Sulph-Acid	
Lime	1
Caustic	1
Potassium	36
Alcomer110	
Sod-Sulph	2
Chemcide	1
Corinox	1
Starpak	
Drispac	

MUD COMMENTS: K+Ion - 24,000, Polymer - 2.8, Sulfite - 250.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.17@00:00 hrs: Inspected BHA.Ran in to 780mKB.Inspect top drive connections,slipped and cut.Tested MWD. Tool did not work properly. Rig serviced.Hoisted out. Changed MWD.Ran in to 780mKB.Tested MWD,OK. Ran in to 1560mKB. Broke circulation.Ran in to bridge @ 1722mKB.Washed 1722-1731mKB. Ran in to 2210mKB. Tagged bridge.Washed 2210-2422mKB.Drilled 311mm hole, with surveys, to 2430mKB at 24:00 hrs 1999.07.17
Note(1) top drive connections and BHA all checked out OK.
Note(2) Hole fill. Calculated:7.53m3, Actual:8.37m3.
Note(3) Hole drag: 10,000 daN both up and down.
Note(4) Torque: 8500-10000 Nm.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61				LOCATION: 300-N61-6040-12330-0		DATE: 99/07/17	
U.W.I.: 300-N61-6040-12330-0				CPA NO.: 300N616040123300		DAY: 118	
OFFICE SUPERVISOR: Mickey Sutherland						LICENCE NO.: 1863	
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m				SPUD DATE: 99/03/21 @ 18:00 hrs.	
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m				RIG RELEASE: @ : hrs.	
						WELL STATUS:	
WEATHER: Clear	TEMP: 8 °C			FINAL TD: m		FORMATION:	
Midnight DEPTH: 2422.00 m	PROGRESS: 0.00 m			PBTD: m		FORMATION:	
8:00 a.m. DEPTH: 2422.00 m	8:00 a.m. OPERATION: Hoisting to check GAMMA RAY/MWD for loss of pulse.						

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 80836 CUMULATIVE COST: $ 10946057

BHA

1 Bit GTP28D	1 Motor1.83Deg	1 MWD DC	1 Trans. Sub	1 Float sub			
1 Shock sub	3 Drill Collar	1 Drilling Jar	5 Drill Collar	1 XO Sub			
6 Drill Collar	1 Xo sub	3 HWDP	1 TBR	6 HWDP			
LENGTH: 247.08 m	WT. BELOW JARS: 16000 daN		JAR HRS: 183.3	JAR SERIAL #: 10882			

TOTAL ROTATING HOURS: 1913.8

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 98000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT/daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
18	311.0	REED	MH9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284	2422	138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ
20	311.0	HW	E83YS	GTP28D	15.9	15.9	15.9	2422		0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS Q/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MT	MF	°C IN/OUT
72	1450/1450	10.5	10.8	2.0	18/ 25.0	15./25.	200.00		0.015	26			1200	300	0.3	3.4	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	IMP.
Emsco.	152	254			Emsco	152	254			13900	0.0	0.0	0.0	0.00

SURVEYS

		AZIMUTH
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING		BOP DRILL	
HNDL TOOLS	9.25	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	8.50
SURVEYING		SLIP & CUT	
RUN CSG		PRESS TEST	6.00
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	
Sulph-Acid	
Lime	
Caustic	
Potassium	
Alcomer110	
Sod-Sulph	
Chemcide	
Corinox	
Starpak	
Drispac	

MUD COMMENTS: K+Ion - 24,000, Polymer - 3.2, Sulfite - 358.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be lettered below.)

99/07/16@00:00 Hours:Finished hoisting bit #19.Flow checked. Laid down motor.Pulled wear bushing.Set plug in casing bowl. Pressure tested.Ran in Baker packer.Set at 718mKB.Tested csg and lower pipe rams.Hoisted packer.Function test accumulator Install wear bushing.Picked up motor(set at @ 1.83 degree) Inspected BHA while running in hole with bit to 24:00hrs.

PRESSURE TESTED: All bop valves, check valves, annular, top and lower pipe rams, blind rams, all manifold valves, HCR, manifold lines, casing, upper and lower kelly cocks and stabbing valve to 1500 kPa low and 13000 kPa high for 15 min each. All good. Accumulator drawdown to 10,400kPa, recharge in 4 minutes.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/17
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 118 DEPTH: 2422.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 8 °C
8:00 a.m. OPERATION: Hoisting to check GAMMA RAY/MWD for loss of pulse.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note(1) There were no cracks found in the BHA. All items inspected good.
Note(2) Picked up the Gamma Ray tool. While functioning the MWD and Gamma Ray tool, below the casing shoe, at 07:00 hours 1999.07.17 it was found that both the MWD and GAMMA RAY tool would not funtion as they did not have a pulse. Will trip out and inspect the cause.

REPORTED BY: M.Rogerson J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/07/16
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 117
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 8 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 2422.00 m	PROGRESS: 56.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 2422.00 m	8:00 a.m. OPERATION: Pressure testing BOP stack.		

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 99568 **CUMULATIVE COST:** $10865221

BHA

1	Bit HP51H	1	Motor1.50Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 183.3 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1913.8

WT. ON BIT: 25000 daN ROTARY RPM: 70+35 STRING WT.: 98000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO:	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	B	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284		138	3.1	45.00		25-35	70	6	8	BT	A	E	2	RG	TQ

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
73	1452/1452	10.5	10.4	1.5	17/ 27.5	25./27.	200.00		0.015	28			1200	300	0.5	3.5	/ 54
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
4 HR IN	1440 kg/m3	OUT	1120 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13900	35.1	63.2	61.9	114.84

SURVEYS

	AZIMUTH
0.80° @ 2358.90 m	65.40
1.00° @ 2368.10 m	67.00
0.80° @ 2377.70 m	61.20
0.70° @ 2387.30 m	55.10
0.80° @ 2396.70 m	52.00
0.90° @ 2406.30 m	33.70
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	18.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	1.50
COND MUD		TRIPPING	2.50
SURVEYING	1.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	325
Lignite	4
Sulph-Acid	
Lime	1
Caustic	1
Potassium	60
Alcomer110	
Sod-Sulph	1
Chemcide	
Corinox	1
Starpak	4
Drispac	2

MUD COMMENTS: K+Ion - 24,500, Polymer - 2.5, Sulfite - 280. Stripped 9 m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.15 At 00:00 Hours.

Drilled 311mm hole from 2366-2422mKB with mud motor and MWD with surveys and rig services. Slid 12m total. The motor torqued and stalled at 2422mKB while trying to slide. Circulated bottoms up. Flow checked, pumped pill and pulled out of hole. To 24:00 Hours 1999.07.15.

Note #1: Hole drag: 8000 daN up and 10,000 daN down.

#2: Torque: 7500 to 10,000 NM.

#3: Top pipe rams closed in 6 seconds, lower pipe rams closed in 7 seconds.

#4: Conducting 30 day pressure test of casing and BOP's. Inspecting BHA for cracks.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/07/15
DAY: 116
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 2 °C
Midnight DEPTH: 2366.00 m PROGRESS: 70.00 m
8:00 a.m. DEPTH: 2384.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Drill 311mm hole with motor (1.5 Degree) and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 74786 CUMULATIVE COST: $10765653

BHA

1	Bit HP51H	1	Motor1.50Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 165.3 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1895.8

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 96000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL	RMD	WT/1000	RPM	I	O	D	L	B	G	O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284		82	3.0	27.00		25-28	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY MFO	°C IN/OUT
72	1420/1425	10.5	11.6	2.0	18/ 43.0	20./25.	200.00		0.015	30			1200	280	0.2	3.0	/ 53
	/				/	/											/

CENTRIFUGE			DESILTER	DESANDER	DECASSER	TOTAL MUD DUMPED
0 HR IN	kg/m3	OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13700	35.1	63.2	61.9	112.55

SURVEYS

			AZIMUTH
0.40	@	2282.90 m	168.20
0.30	@	2292.60 m	126.00
0.40	@	2302.20 m	117.00
0.50	@	2311.50 m	112.90
0.40	@	2321.10 m	83.10
0.50	@	2330.50 m	68.70
0.70	@	2340.00 m	62.90
1.00	@	2349.30 m	58.60
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	21.00	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	2.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	15
Lignite	5
Sulph-Acid	
Lime	
Desco	
Potassium	124
Alcomer110	1
Sod-Sulph	2
Chemcide	2
Corinox	2
Starpak	1
Drispac	1

MUD COMMENTS: K+Ion - 24000, Polymer - 2.5, Sulfite - 250.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.14 AT 00:00 Hours. Changed head in pump. Directionally drilled, rotating from 2296-2364mKB, with surveys and rig services. Held BOP drill. Slid from 2364-2366mKB, to 24:00 Hours 1999.07.14.

Note #1: Hole drag: 9,000 daN up, 11,000 daN down.
#2: Torque: 7,500 to 8,500 NM.
#3: Back ground gas increased to 17%, started raising density.
#4: Lower pipe rams closed in 6 seconds. Annular closed in 20 seconds.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/07/14
DAY: 115

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Overcast TEMP: 7 °C
Midnight DEPTH: 2296.00 m PROGRESS: 19.00 m
8:00 a.m. DEPTH: 2314.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Drilling 311mm hole with MWD and motor (1.5 degree).

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 83524 CUMULATIVE COST: $10690867

BHA

1	Bit HP51H	1	Motor1.50Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 144.3 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1874.8

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 94000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076	2284	208	1.5	138.25	2.00	25-27	70	2	3	WT	A	F	I	NO	TQ
19	311.0	REED	KC5671	EHP51H	15.9	15.9	15.9	2284		12	2.0	6.00		24-27	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
77	1415/1420	10.0	10.2	1.5	17/ 29.0	16./23.	200.00		0.015	25			1200	280	0.2	3.0	/ 51
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DECASSER	TOTAL MUD DUMPED
4 HR IN kg/m3 OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13600	35.1	63.2	61.9	112.15

SURVEYS

		AZIMUTH
0.40 °	@ 2263.80 m	195.40
0.40 °	@ 2273.40 m	169.50
0.40 °	@ 2282.90 m	168.20
0.30 °	@ 2292.60 m	126.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	10.50	BOP DRILL	
HNDL TOOLS	1.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	2.00
COND MUD		TRIPPING	8.00
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM	1.00	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	89
Lignite	2
Sulph-Acid	
Lime	2
Desco	
Potassium	
Alcomer110	
Sod-Sulph	2
Chemcide	
Corinox	2
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 24,500, polymer - 2.5, sulfite - 256, Bottom hole temp MWD - 58 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.13 At 00:00 Hours. Drilled 311mm hole (rotated) from 2277mKB to 2279mKB. Rig serviced. Function tested top pipe rams (6 seconds closing). Surveyed. Rotated to 2284mKB. Circulated bottoms up, pumped pill. Tripped bit #18, flow checked as required. (hole good on trip) Function tested blind rams when out of hole. Changed bit, mud motor angle. Tripped bit #19 to 780mKB. Tested MWD tool. Tripped to 2182mKB. Broke circulation. Reamed bridge at 2182mKB. Washed to bottom with 1m fill. Broke in bit #19. Drilled 311mm hole from 2284mKB to 2288mKB. Surveyed. Drilled to 2296mKB. At 23:59 Hours 1999.07.13.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/14
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 115 DEPTH: 2296.00 m PROGRESS: 19.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 7 °C
8:00 a.m. OPERATION: Drilling 311mm hole with MWD and motor (1.5 degree).

DRILLING & GEOLOGICAL REMARKS (Cont'd)

* Hole fill: Actual: 16.75m3, Calculated: 13.86m3, Difference: + 2.89m3.
* Hole drag: 8,000 daN (up) 6,000 daN (down)
* Torque: 7,000 - 8,000 NM.

REPORTED BY: M.Rogerson D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/07/13
DAY: 114
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Clear TEMP: 12 °C
Midnight DEPTH: 2277.00 m PROGRESS: 28.00 m
8:00 a.m. DEPTH: 2284.00 m 8:00 a.m. OPERATION: Tripping Out Bit #18

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60430 CUMULATIVE COST: $10607343

BHA

1	Bit HP53A	1	Motor1.83deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 133.8 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1864.3

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 95000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MH9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	B	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076		201	1.5	133.75	2.00	25-27	70								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFT	MFO	°C IN/OUT
68	1415/1420	10.4	11.9	1.5	17/ 24.0	17./22.	200.00		0.015	25			1250	320	0.4	3.6	/ 55
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
33 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	112.15

SURVEYS

		AZIMUTH
0.50 °	@ 2234.60 m	191.90
0.50 °	@ 2244.60 m	201.70
0.50 °	@ 2254.10 m	194.50
0.40 °	@ 2263.80 m	195.40
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	162
Caustic	1
Sulph-Acid	6
Lime	4
Desco	
Potassium	152
Alcomer110	
Sod-Sulph	3
Chemcide	1
Corinox	3
Starpak	
Drispac	

MUD COMMENTS: K+Ion - 22,000, polymer - 3.7, sulfite - 256, Bottom hole temp - MWD - 60 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.12 At 00:00 Hours. Surveyed at 2234.6 mKB. Drilled 311mm hole (rotated) from 2249-2259mKB. Rig serviced. Function tested remote choke. Surveyed. Rotated to 2269mKB. Rig serviced. Function tested annular (18 seconds closing). Surveyed. Rotated to 2277mKB at 24:00 Hours 1999.07.12.
* Hole drag: 8,000 daN (up) 10,000 daN (down).
* Torque: 8,000-9,000 NM.
* Ran barite recovery and stripped 16m3 from active system.
* Hole in good condition.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/12
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 113
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: 15 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2249.00 m | PROGRESS: 28.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2258.00 m | 8:00 a.m. OPERATION: Directionally drilling 311mm hole with MWD.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 57497 | CUMULATIVE COST: $10546913

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m | WT. BELOW JARS: 16000 daN | JAR HRS: 111.0 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1841.6

WT. ON BIT: 26000 daN | ROTARY RPM: 70+35 | STRING WT.: 94000 daN

DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076		173	1.6	111.00	2.00	26-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
77	1410/1420	10.4	10.4	1.5	17/ 30.0	16./23.	200.00		0.015	30			1400	320	0.3	3.1	/ 53
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
17 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	GPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	111.92

SURVEYS

		AZIMUTH
0.50 °	@ 2215.40 m	208.00
0.50 °	@ 2225.10 m	192.70
0.50 °	@ 2234.60 m	191.90
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	102
Lignite	4
Gypsum	2
Lime	1
Desco	1
Potassium	28
Alcomer110	1
Sod-Sulph	4
Chemcide	1
Corinox	3
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 23,000, polymer - 3.6, sulfite - Bottom hole temp - MWD 60 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.11 @ 00:00 Hours. Drilled 311mm hole: Rotated from 2221-2229.8mKB. Rig serviced. Function tested top pipe rams (6 seconds closing). Surveyed. Rotated to 2240mKB. Surveyed. Rotated to 2249mKB. Rig serviced. Function tested annular (18 seconds closing). To 24:00 Hours 1999.07.11.

* Hole drag: 9,000 daN (up), 6,000 daN (down)
* Torque: 8,000-9,000 NM.
* Ran barite recovery and stripped 6m3 from active system.

SUPERVISOR: M.Rogerson D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/07/11
DAY: 112

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ :- hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: High cloud TEMP: 13 °C
Midnight DEPTH: 2221.00 m PROGRESS: 32.00 m
8:00 a.m. DEPTH: 2231.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Directionally drilling 311mm hole with MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 63509 CUMULATIVE COST: $10489416

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 88.0 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1818.6

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 92000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	D	REMARKS R.
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076		145	1.6	88.00	2.00	26-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Cor. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFQ	°C IN/OUT
87	1410/1420	10.2	10.8	1.5	17/ 28.0	17./23.	200.00		0.015	30			1400	320	0.2	2.1	/ 55
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
12 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	111.92

SURVEYS

			AZIMUTH
1.60	@	2176.90 m	197.90
1.20	@	2186.60 m	203.20
0.80	@	2196.30 m	206.30
0.60	@	2205.80 m	206.60
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	22.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	360
Lignite	10
Gypsum	4
Lime	5
Desco	2
Potassium	56
Alcomer110	1
Sod-Sulph	5
Chemcide	
Corinox	4
Starpak	4
Drispac	2

MUD COMMENTS: K+Ion - 22,000, polymer - 3.1, sulfite - 256. Bottom hole MWD temp - 60 C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations is to be inserted below.)

1999.07.10 @ 00:00 hours. Drilled 311mm hole. Rotated from 2189.0 - 2192.0mKB. Rig serviced. Function tested annular, 18 seconds to close. Surveyed. Slid from 2192.0 - 2193.0mKB. Changed head on #2 pump. Slid from 2193.0 - 2195.0mKB. Rotated from 2195.0 - 2201.6mKB. Surveyed. Rotated from 2201.6 - 2211.3mKB. Rig serviced. Funtion tested bottom pipe rams, 6 seconds to close. Surveyed. Rotated from 2211.3 - 2220.8mKB. Surveyed. Rotated from 2220.8 - 2221.0 to 23:59 hours, 1999.07.10.

Note #1: Hole drag: 10,000daN up and down.
#2: Torque: 8,000 - 8,500Nm.
#3: Ran barite recovery. Stripped 6m3 from system.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/07/10
DAY: 111
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 14 °C
Midnight DEPTH: 2189.00 m PROGRESS: 39.00 m
8:00 a.m. DEPTH: 2198.00 m 8:00 a.m. OPERATION: Directionally drilling 311mm hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 59033 CUMULATIVE COST: $10425907

BHA

1	Bit HPS3A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 66.0 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1796.6

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 92000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					I	II	III	IN	OUT			DRL	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
17RR	311.0	Reed	MM9061	EHPS3A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHPS3A	15.9	15.9	15.9	2076		113	1.7	66.00	2.00	26-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [X]

MUD

Viscosity SG/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
85	1400/1410	10.4	12.1	1.5	17/ 30.0	17. /24.	200.00		0.075	30			1400	240	0.3	3.1	/ 54
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	111.13

SURVEYS

		AZIMUTH
1.70 °	@ 2138.60 m	136.60
1.50 °	@ 2148.00 m	165.60
1.60 °	@ 2157.60 m	186.90
1.70 °	@ 2167.30 m	193.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	257
Lignite	2
Defoam xl	1
Lime	2
Desco	1
Potassium	28
Alcomer110	1
Sod-Sulph	3
Chemcide	1
Corinox	3
Starpak	2
Drispac	1

MUD COMMENTS: K+Ion - 26,000, polymer - 3.2, sulfite - 254, Bottom hole temp MWD - 60 C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.09 @ 00:00 hours. Drilled 311mm hole. Rotated from 2150.0 - 2153.6mKB. Rig serviced. Function tested bottom pipe rams, 6 seconds to close. Surveyed. Slid from 2153.6 - 2156.6mKB. Rotated from 2156.6 - 2163.0mKB. Surveyed. Rotated from 2163.0 - 2172.0mKB. Rig serviced. Function tested top pipe rams, 6 seconds to close. Surveyed. Rotated from 2172.0 - 2182.2mKB. Surveyed. Slid from 2182.2 - 2183.2mKB. Changed valve and seat on #2 pump. Slid from 2183.2 - 2185.2mKB. Rotated from 2185.2 - 2189.0mKB to 23:59 hours, 1999.07.09.

Note #1: Survey at 2176.9mKB: 1.6 degrees and 197.9 azmuth.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/09
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 110
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Hazy (smoke) | TEMP: 10 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2150.00 m | PROGRESS: 38.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2162.00 m | 8:00 a.m. OPERATION: Directionally drilling 311 mm hole with MWD.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 55136 | CUMULATIVE COST: $10366874

BHA

1	Bit HP53A	1	Motor1.83deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m | WT. BELOW JARS: 16000 daN | JAR HRS: 44.0 | JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1774.6

WT. ON BIT: 26000 daN | ROTARY RPM: 70+35 | STRING WT.: 90000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		METRES	METRES PER HOUR	HOURS ON BIT		WT	RPM	CUTTING STRUCT.						REMARKS	
					X	X	X	IN	OUT			DRL.	RND			I	O	D	L	B	G	O	R
17RR	311.0	Reed	MH9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MH9062	EHP53A	15.9	15.9	15.9	2076		74	1.7	44.00	2.00	26-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	PM cc/cc/cc	PC mm	FV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY MFO	R IN/OUT
90	1390/1400	10.5	10.8	1.5	18/ 25.0	18./25.	195.00		0.015	33			1400	240	0.3	3.0	/ 52
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000				PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	110.34

SURVEYS

		AZIMUTH
1.70°	@ 2101.10 m	105.20
1.90°	@ 2110.60 m	110.90
1.60°	@ 2120.00 m	129.60
1.70°	@ 2129.10 m	122.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.00	BOP DRILL	
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	120
Lignite	4
Percol	1
Lime	4
Desco	3
Potassium	28
Alcomer110	1
Sod-Sulph	5
Sulph acid	1
Corinox	4
Starpac	2
Drispac	1

MUD COMMENTS: K+Ion - 24,500, polymer - 3.2, sulfite - 224. Bottom hole temp MWD - 56 C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.07.08 @ 00:00 hours. Drilled 311 mm hole. Rotated from 2112 - 2116mKB. Rig serviced. Function tested annular, 18 seconds to close. Surveyed. Rotated from 2116 - 2125.4mKB. Surveyed. Slid from 2125.4 - 2126mKB. Changed valve & seat in #1 pump. Slid from 2126 - 2129.4mKB. Rotated from 2129.4 - 2135mKB. Surveyed. Circulated. Changed head & liner on #1 pump. Rotated from 2135 - 2144mKB. Surveyed. Slid from 2144 - 2147mKB. Rotated from 2147 - 2150mKB to 23:59 hours, 1999.07.08.

Note #1: Received inspection of rig & camp from NEB's Rick Turner. Good report.

#2: Survey at 2138.6mKB: 1.7 degrees, 136.6 azmuth.

SUPERVISOR: M.Rogerson D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 04/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/08
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 109
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Hazy (smoke) TEMP: 9 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2112.00 m PROGRESS: 33.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2125.00 m 8:00 a.m. OPERATION: Drill 311mm hole with MWD and mud motor (1.83 degree bend)

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 66300 CUMULATIVE COST: $10311738

BHA

1	Bit HP53A	1	Motor1.83deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 23.0 JAR SERIAL #: 10882

TOTAL ROTATING HOURS: 1753.6

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 88000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	1	1	DEPTH IN	OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	ROTO	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076		36	1.6	23.00	2.00	26-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Pf	Mf	°C IN/OUT
87	1405/1400	10.6	11.0	1.5	17/ 28.0	17. /23.	200.00		0.015	33			1450	280	0.4	3.0	/ 52
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	110.97

SURVEYS

		AZIMUTH
1.80 °	@ 2082.00 m	69.40
1.70 °	@ 2091.60 m	87.50
1.70 °	@ 2101.00 m	105.20
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.25	BOP DRILL	0.25
MNDL TOOLS	0.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	2
Chemcide	1
Lime	5
Desco	1
Potassium	84
Alcomer110	2
Sod-Sulph	3
Sulph acid	
Corinox	3
Starpac	4
Drispac	2

MUD COMMENTS: K+Ion -24,500, polymer - 3.1, sulfite - 256 Bottom hole temp MWD - 56 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.07 @ 00:00 Hours:
Drilled 311mm hole (slid 2079-2081.3mKB). Changed valve and seat #2 pump. Rig serviced. Function tested bottom pipe rams 8 seconds to close. Slid 2081.3-2083.2mKB with 35,000 daN. Rotated 2083.2-2087.6mKB with 25,000 daN. Surveyed. Slid 2087.6-2090.6mKB. Rotated to 2096mKB. Rig serviced. Function tested top pipe rams, 6 seconds to close. Surveyed. Slid 2096-2100.1mKB. Rotated to 2106.5mKB. Conducted BOP drill in drilling mode. Well secured 70 seconds. Surveyed. Slid 2106.5-2108.5mKB. Rotated to 2112mKB. Changed shaker screens to 24:00 hours 1999.07.07.
Note: Hole in excellent condition.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/07/07
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 108
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Smoky Overcast	TEMP: 7 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 2079.00 m	PROGRESS: 6.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 2088.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with mud motor (1.83 degree bend) & MWD.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 80660 CUMULATIVE COST: $10245438

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Float sub
1	Shock sub	3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub
6	Drill Collar	1	Xo sub	3	HWDP	1	TBR	6	HWDP

LENGTH: 247.44 m WT. BELOW JARS: 16000 daN JAR HRS: 8.8 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1732.4

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 87000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RND	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884	2076	192	1.7	115.00		25-36	70	2	2	FC	N	8	I	CD	PR
18	311.0	REED	MM9062	EHP53A	15.9	15.9	15.9	2076		3	0.6	4.75	2.00	12-26	35								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	MBT eq/30ml	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFL	MFO	°C IN/OUT
91	1405/1405	10.3	11.1	1.5	18/ 29.0	18./24.	200.00		0.010	33			1400	240	0.3	3.0	/ 48
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	13400	35.1	63.2	61.9	111.13

SURVEYS

			AZIMUTH
2.60	@	2060.70 m	65.40
2.50	@	2063.00 m	61.90
2.30	@	2072.60 m	60.70
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	4.75	BOP DRILL	0.25
HNDL TOOLS	3.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.50
COND MUD		TRIPPING	11.00
SURVEYING	0.50	SLIP & CUT	0.75
RUN CSG		PRESS TEST	
CLN TO BTM	2.00	W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	171
Lignite	
Chemcide	
Lime	1
Desco	
Potassium	66
Alcomer110	
Sod-Sulph	2
Sulph acid	
Corinox	1
Starpac	2
Drispac	1

MUD COMMENTS: Polymer 3.0, K+Lon 24500, Sulfite 224,

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.06 @ 00:00 Hours:

Drilled 311mm hole, rotating from 2073.1-2075.5mKB with 26000 daN. Rig serviced. Functioned top pipe rams, closed [illegible] 8 seconds. Surveyed at 2060.7mKB. Slid from 2075.7-[illegible]6.5mKB with 20-24000 daN. Motor kept stalling. Changed [illegible]ead in mud pump. Circulated and mixed pill. Tripped out to 1990mKB. Reamed dog leg. Pumped pill. Tripped out to bit. Hole good. Changed bit, mud motor, shock sub and jars. Serviced and oriented MWD. Functioned blind rams, closed in 8 seconds. Ran in hole to 760mKB. Held BOP drill, well secured in 1 minute. Tested MWD. Slipped and cut drilling line. Ran in hole to 2049mKB. Tagged bridge. Reamed from

SUPERVISOR: B.Shudra/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/07
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 108 DEPTH: 2079.00 m PROGRESS: 6.00 m CPA NO.: 300N616040123300

WEATHER: Smoky Overcast TEMP: 7 °C
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor (1.83 degree bend) & MWD.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

2039-2076mKB. 5m fill. Drilled 311mm hole, rotating from 2076-2078mKB. Surveyed. Slid from 2078-2079mKB, with 36000 daN on bit, to 24:00 hours 1999.07.06.

Note #1: Trip volume: Measured: 15.44m3, Calculated: 13.14m3, Difference: 2.30m3.
#2: Laid down Jars serial #10156, shock sub #31634, mud motor #96065
Picked up Jars serial #10882, shock sub #10789, mud motor #96041.
#3: Hole in very good condition on trip.

REPORTED BY: B.Shudra/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/06
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 107
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Cloudy, muddy TEMP: 5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 2073.00 m PROGRESS: 24.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 2076.00 m 8:00 a.m. OPERATION: Tripping out. Mud motor stalling on slide.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 55550 CUMULATIVE COST: $10164778

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 530.3 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1727.7

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 86000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /mm 1	1	1	1	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	1	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9		1884		189	1.7	112.00		25-36	70								
											0				-									
											0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY in/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF1	MF0	°C IN/OUT
102	1400/1400	10.4	10.5	1.5	19/ 31.0	19./25.	200.00		0.010	35			1450	280	0.3	3.1	/ 54
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	13500	35.1	63.2	61.9	110.73

SURVEYS

		AZIMUTH
2.40 °	@ 2041.70 m	73.10
2.60 °	@ 2052.00 m	67.60
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	20.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	1.50
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	
Lignite	2
Chemcide	1
Lime	1
Desco	2
Potassium	86
Alcomer110	1
Sod-Sulph	3
Sulph acid	
Corinox	2
Starpac	
Percol	

MUD COMMENTS: Polymer 3.2, K+Ion 23500, Sulfite 300, Bottom hole temp MWD 58 c

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.05 @ 00:00 Hours:
Drilled 311mm hole with mud motor and MWD. Slid from 2049-2049.2mKB. Rotated from 2049.2-2050mKB. Slid from 2050-2051.5mKB. Rotated from 2051.5-2052.7mKB. Tripped out 10 stands. Hole good. Repaired 4" valve on mud line. Rig serviced. Functioned bottom pipe rams, closed in 8 seconds. Ran in hole 10 stands. Drilled 311mm hole. Rotated from 2052.7-2056mKB. Rig serviced. Functioned annular, closed in 18 seconds. Surveyed. Slid from 2056-2057mKB. Rotated from 2057-2064mKB. Changed head on #2 pump. Rotated from 2064-2067mKB. Surveyed. Slid from 2067-2073.1mKB to 24:00 hours 1999.07.05.

SUPERVISOR: B.Shudra/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/06
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 107 DEPTH: 2073.00 m PROGRESS: 24.00 m CPA NO.: 300N616040123300

WEATHER: Cloudy, muddy TEMP: 5 °C
6:00 a.m. OPERATION: Tripping out. Mud motor stalling on slide.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Sliding with 28-32,000 daN.
Rotating with 26-28,000 daN.

REPORTED BY: B.Shudra/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/05
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 106
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast | TEMP: 6 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 2049.00 m | PROGRESS: 39.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 2054.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor (1.83 degree) and MWD.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 59602 | CUMULATIVE COST: $10109228

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m | WT. BELOW JARS: 16000 daN | JAR HRS: 509.8 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1707.2

WT. ON BIT: 26000 daN | ROTARY RPM: 70+35 | STRING WT.: 85000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884		165	1.8	91.50		25-36	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
110	1405/1405	10.5	10.0	1.5	20/ 30.0	19./24.	200.00		0.010	35			1450	280	0.3	2.9	/ 54
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13500	35.1	63.2	61.9	111.13

SURVEYS

		AZIMUTH
2.50°	@ 2004.00 m	85.60
2.00°	@ 2013.60 m	87.30
2.10°	@ 2022.40 m	84.80
2.40°	@ 2032.70 m	80.50
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	84
Lignite	6
Chemcide	1
Lime	3
Desco	3
Potassium	55
Alcomer110	1
Sod-Sulph	3
Sulph acid	2
Corinox	2
Starpac	2
Percol	1

MUD COMMENTS: Polymer 3.3, K+Ion 20000, Sufite 300

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.04 @ 00:00 Hours.
Drilled 311mm hole with mud motor, MWD. Slid from 2010-2015.8mKB, 34-40,000 daN. Rotated from 2015.8-2019mKB, -28,000 daN. Rig serviced. Functioned top pipe rams, losed in 8 seconds. Surveyed at 2004mKB. Rotated from 2019-2028mKB. 26-28,000 daN. Surveyed at 2013.6mKB. Rotated from 2028-2037mKB. Rig serviced. Functioned upper pipe rams. Surveyed at 2022.4mKB. Rotated from 2037-2043mKB. Worked on #1 pump. Surveyed at 2028.1mKB. Rotated from 2043-2047.7mKB. Surveyed at 2032.7mKB. Changed shaker screen to 140. Slid from 2047.7-2049mKB to 24:00 Hours 1999.07.04.
Note: Hole in good condition.

SUPERVISOR: B.Shudra D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/07/04
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 105
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast. TEMP: 5 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 2010.00 m	PROGRESS: 40.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 2024.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 57386 CUMULATIVE COST: $10049626

BHA

1 Bit HP53A	1 Motor1.83deg	1 MWD DC	1 Trans. Sub	1 Shock sub
3 Drill Collar	1 Drilling Jar	5 Drill Collar	1 XO Sub	6 Drill Collar
1 Xo sub	3 HWDP	1 TBR	6 HWDP	

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 488.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1686.0

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 84000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS/HOUR	HOURS ON BIT DRL.	RND	BIT WTdaN	RPM	CUTTING STRUCT. I.	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884		126	1.8	70.25		25-36	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	PF	°C IN/OUT
98	1410/1410	10.5	10.5	1.5	18/ 30.0	17./24.	215.00		0.010	32			1450	320	0.3	3.0	/ 54
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMP m3

PUMP

PUMP NO.1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO.2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13000	35.1	63.2	61.9	111.52

SURVEYS

		AZIMUTH
5.40 °	@ 1956.20 m	75.30
4.70 °	@ 1965.80 m	76.90
3.90 °	@ 1975.90 m	77.90
3.40 °	@ 1985.20 m	79.70
3.10 °	@ 1994.50 m	81.80
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	216
Lignite	6
Chemcide	1
Lime	4
Desco	1
Potassium	55
Alcomer110	2
Sod-Sulph	5
Soda Ash	
Corinox	4
Starpac	2
Caustic	1

MUD COMMENTS: Polymer 3.1, K+Ion 24,500, Sulfite 224, MWD temperature 56 degrees C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.03 @ 00:00 Hours. Drilled 311mm hole, with mud motor and MWD from 1970.0mKB to 2010.0mKB, surveying as required.

Drilling 311mm hole with mud motor and MWD to 23:59 hours, 1999.07.03.

#1: Surveyed and serviced rig as required.

#2: Functioned annular, closed in 20 seconds.

#3: Functioned bottom pipe rams, closed in 6 seconds.

#4: Rotated from 1970.0mKB to 1971.2mKB.
Slid from 1971.2mKB to 1978.5mKB.
Rotated form 1978.5mKB to 1980.8mKB.
Slid from 1980.8mKB to 1987.0mKB.
Rotated from 1987.0mKB to 1990.0mKB.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/04
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 105 DEPTH: 2010.00 m PROGRESS: 40.00 m CPA NO.: 300N616040123300

WEATHER: Overcast. TEMP: 5 °C
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Slid from 1990.0mKB to 1995.0mKB.
Rotated from 1995.0mKB to 1999.6mKB.
Rotated from 1999.6mKB to 2000.2mKB.
Slid from 2000.2mKB to 2005.4mKB.
Rotated from 2005.4mKB to 2009.5mKB
Slid from 2009.5mKb to 2010.0mKB.

REPORTED BY: B.Shudra D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/07/03
W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 104
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast, light rain. TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1970.00 m PROGRESS: 40.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1982.00 m 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 61637 CUMULATIVE COST: $ 9992240

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 466.3 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1663.8

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 84000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT T	O	D	L	B	G	O	REMARKS R
17RR	311.0	Reed	MM9061	EHPS3A	15.9	15.9	15.9	1884		86	1.8	48.00		25-36	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	NFO	°C IN/OUT
00	1400/1400	10.1	10.6	1.5	19/ 32.0	18./26.	210.00		0.010	38			1400	320	0.3	2.6	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	13000	35.1	63.2	61.9	110.73

SURVEYS

			AZIMUTH
5.60	@	1918.20 m	59.90
5.40	@	1927.60 m	63.60
5.60	@	1937.10 m	69.30
5.70	@	1946.60 m	72.90
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Gel	42
Lignite	6
Chemcide	1
Lime	1
Desco	3
Potassium	28
Alcomer110	1
Sod-Sulph	3
Soda Ash	1
Corinox	3
Gypsum	4
Caustic	1

MUD COMMENTS: Polymer 2.8, K+lon 24,500, Sulfite 224, MWD temperature 56 degrees C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.02 @ 00:00 hours.
Drilled 311mm hole with mud motor and MWD from 1930.0mKB to 1970.0mKB, servicing rig and surveying as required, to 23:59 hours, 1999.07.02.

Note #1: Functioned top pipe rams, closed in 7 seconds.

#2: Serviced rig and surveyed as required.
#3: Hole cleaning well.
#4: Slid from 1930.0mKb to 1932.0mKB.
Rotated from 1932.0mKB to 1933.2mKB.
Slid from 1933.2mKB to 1941.5mKB.
Rotated from 1941.5mKB to 1942.6mKB.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/03
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 104 DEPTH: 1970.00 m PROGRESS: 40.00 m CPA NO.: 300N616040123300

WEATHER: Overcast, light rain. TEMP: 6 °C
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Slid from 1942.6mKb to 1947.6mKB.
Rotated from 1947.6mKB to 1952.1mKB.
Slid from 1952.1mKB to 1957.5mKB.
Rotated from 1957.5mKB to 1961.6mKB.
Slid from 1961.6mKB to 1970.0mKB.
#4: Weight on bit while sliding: 36,000 daN to 40,000 daN.
Weight in bit while rotating: 26,000 daN to 29,000 daN.

REPORTED BY: B.Shudra D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 05/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/07/02
DAY: 103

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Cloudy TEMP: 5 °C
Midnight DEPTH: 1930.00 m PROGRESS: 38.00 m
8:00 a.m. DEPTH: 1942.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:

8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 53381 CUMULATIVE COST: $ 9930603

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 440.7 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1641.3

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 83000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884		46	1.8	25.25		25-36	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Mfo	°C IN/OUT
92	1410/1410	10.1	10.1	1.5	17/ 31.0	17./24.	190.00		0.010	33			1400	240	0.5	3.0	/ 46
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	13200	35.7	64.4	63.0	117.66

SURVEYS

		AZIMUTH
5.20°	@ 1879.40 m	63.60
5.50°	@ 1889.10 m	62.50
5.60°	@ 1894.40 m	62.00
5.60°	@ 1898.80 m	61.90
5.60°	@ 1908.50 m	59.60
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Percol 728	1
Lignite	5
Chemcide	1
Lime	3
Desco	3
Potassium	28
Alcomer110	1
Sod-Sulph	1
Barite	
Corinox	1
Drispac	2
Starpac	4

MUD COMMENTS: Polymer 3.2, K+Ion 26,000, Sulfite 224, MWD Temp 54 DEGRESS C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.07.01 @ 00:00 Hours. Drilled 311mm hole with mud motor and MWD from 1892.0mKB to 1930.0mKB surveying as required. Rig serviced. Functioned bottom pipe rams, closed in 8 seconds. Functioned top pipe rams, closed in 7 seconds. Changed shaker screens to 175. Changed head on pump #1. Continued drilling 311mm hole to 23:59 Hours, 1999.07.01.

Note #1: Hole drag: 8,000 daN up and down.
#2: Hole cleaning well. No slivers or cavings.
#3: Rotated from 1892.0mKB to 1894.4mKB.
Slid from 1894.4mKB to 1899.7mKB.
Rotated from 1899.7mKB to 1904.1mKB.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/02
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 103 DEPTH: 1930.00 m PROGRESS: 38.00 m CPA NO.: 300N616040123300

WEATHER: Cloudy TEMP: 5 °C
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Slid from 1904.1mKB to 1909.0mKB.
Rotated from 1909.0mKB to 1913.0mKB.
Slid from 1913.0mKb to 1921.0mKB.
Rotated from 1921.0mKB to 1923.5mKB.
Slid from 1923.5mKB to 1930.0mKB.

REPORTED BY: B.Shudra D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/07/01
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 102
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:

WEATHER: Overcast TEMP: 7 °C FINAL TD: m FORMATION:

Midnight DEPTH: 1892.00 m PROGRESS: 12.00 m PBTD: m FORMATION:

8:00 a.m. DEPTH: 1903.00 m 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 53937 CUMULATIVE COST: $ 9877222

BHA

1	Bit HP53A	1	Motor1.83Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 419.7 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1620.3

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 82000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
16	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1852	1884	32	1.9	16.75		25-26	70	1	1	PN	A	1	I		DTF
17RR	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1884		8	1.8	4.50		25-36	70								
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	PF	°C IN/OUT
82	1405/1405	10.2	12.2	1.5	16/ 30.0	16./24.	190.00		0.010	30			1400	240	0.2	2.3	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	81	1.12	Emsco	152	254	81	1.12	13930	35.4	63.8	62.4	114.16

SURVEYS

			AZIMUTH
4.70	@	1869.80 m	65.40
4.70	@	1869.00 m	65.40
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	7.25	BOP DRILL	0.25
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	5.75	TRIPPING	6.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM	1.00	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Sawdust	
Lignite	2
Chemcide	
Lime	2
Desco	1
Potassium	
Defoam xl	
Sod-Sulph	3
Barite	293
Corinox	2
Drispac	1
Starpac	1

MUD COMMENTS: K+Ion 23,500, Sulfite 200, Polymer 3.0, MWD temperature 50 degrees C.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.30 @ 00:00 Hours.

Drilled 311mm hole with mud motor and MWD from 1880mKB to 1884mKB. Rig serviced. Functioned annular, closed in 19 seconds. Drilled 311mm hole from 1884mKB to 1884.8mKB. Surveyed. Circulated and conditioned mud - raised weight to 1400kg/m3. Pumped pill. Hoisted out of hole to check directional equipment. Unplugged jet in bit. Set motor angle from 1.5 to 1.83 degrees. Ran in hole to 780mKB. Checked MWD - OK. Held BOP drill. Well secured in 60 seconds. Ran in hole from 780mKB to 1875mKB. Broke circulation. Cleaned 9m to bottom, of which 7m were fill. Surveyed. Drilled from 1884.8mKB to 1887mKB. Circulated hole clean. Drilled 311mm

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/07/01
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 102 DEPTH: 1892.00 m PROGRESS: 12.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 7 °C
8:00 a.m. OPERATION: Drilling 311mm hole with mud motor and MWD.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

hole with mud motor from 1887mKB to 1892mKB. Drilling 311mm hole with mud motor and MWD to 23:59 hours 1999.06.30.

Note: Changed corrosion ring.

REPORTED BY: B.Shudra D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/06/30
DAY: 101

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

WEATHER: Overcast, Rain TEMP: 6 °C
Midnight DEPTH: 1880.00 m PROGRESS: 28.00 m
8:00 a.m. DEPTH: 1884.83 m 8:00 a.m. OPERATION: Tripping out to check motor.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 64699 CUMULATIVE COST: $ 9823285

BHA

1	Bit HP53A	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 412.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1613.1

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 82000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMG	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
16	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1852		28	2.0	14.00		25-26	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MEO	°C IN/OUT
84	1380/1380	10.2	10.2	1.5	15/ 28.0	16./22.	190.00		0.010	30			1450	200	0.2	2.6	/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
3 HR IN	1380 kg/m3	OUT	1930 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	JHP
Emsco	152	254	78	1.08	Emsco	152	254	78	1.08	15100	34.1	61.5	60.2	100.54

SURVEYS

			AZIMUTH
3.40	@	1841.20 m	74.90
3.60	@	1850.30 m	72.50
4.10	@	1860.00 m	68.30
4.70	@	1869.80 m	65.20
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	14.00	BOP DRILL	
MNDL TOOLS	1.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	3.25
SURVEYING	1.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM	0.50	W.O.C.	
REPAIRS	2.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	0.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Sawdust	333
Lignite	7
Chemcide	1
Lime	5
Desco	4
Potassium	26
Defoam xl	1
Sod-Sulph	3
Barite	354
Corinox	2
Alkpam1003	2
Alkpam1103	-1

MUD COMMENTS: K+Ion - 24500, Polymer - 3.0, Sulfite - 224. MWD BHT: 50 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.29 @ 00:00 Hours:
Tripped in hole to 790mKB. Checked MWD. Changed out grabber on Tesco Top Drive. Changed out wash pipe. Moved torque tube. Tripped in hole. Washed to bottom, 3m fill. Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required, to 1880mKB at 24:00 hours 1999.06.29.

Note #1: Hole condition very good, just drill cuttings coming over shaker. Some shale slivers while rotating.
#2: Background gas 40 units. Drilled gas up to 90 units. Trip gas 1400 units. Background gas 80 units.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 36/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/30
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 101 DEPTH: 1880.00 m PROGRESS: 28.00 m CPA NO.: 300N616040123300

WEATHER: Overcast, Rain TEMP: 6 °C
8:00 a.m. OPERATION: Tripping out to check motor.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #3: Slid 3 metres, then 4 metres, then 5 metres on consecutive singles. Angle going out. Hoisted to check motor.
#4: Mud cost 1999.06.30 report, inventory and cost correction.

REPORTED BY: B.Shudra/J.Brazel

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/06/29
DAY: 100
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast (Rain & Wind) TEMP: 10 °C
Midnight DEPTH: 1852.00 m PROGRESS: 12.00 m
8:00 a.m. DEPTH: 1852.00 m 8:00 a.m. OPERATION: Tripping in hole with bit #16

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 82191 CUMULATIVE COST: $ 9758586

BHA

1	Bit HP53A	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.00 m WT. BELOW JARS: 16000 daN JAR HRS: 316.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1599.1

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 81000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
15	311.0	Reed	MM9024	HP63	14.3	14.3	14.3	1693	1852	159	1.3	123.25		25-26	70	2	3	WT	A	E	1	WT	hr
16	311.0	Reed	MM9061	EHP53A	15.9	15.9	15.9	1852		0		0.00		-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF†	MFO	°C IN/OUT
88	1390/1390	10.2	10.8	1.5	16/ 31.0	16./24.	200.00		0.011	30			1300	400	0.2	2.1	/ 47
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	13400	35.7	64.4	63.0	115.99

SURVEYS

		AZIMUTH
3.60 °	@ 1831.70 m	75.10
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	12.50	BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	1.50	TRIPPING	6.75
SURVEYING	0.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	103
Lignite	1
Starpak	3
Drispac	2
Desco	3
Potassium	28
Sulph-acid	
Sod-Sulph	3
Percol 728	
Corinox	2
Lime	1

MUD COMMENTS: K+Ion - 23500, Polymer - 2.8, Sulfite - 244. MWD BHT: 56 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.06.28 @ 00:00 Hours.
Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required to 1852.7mKB. Wiper tripped 12 stands. Circulated, checked for gas, 2100 units over a background 80 units. Hoisted out of hole. Changed out mud motor, service transmitter sub, made up bit (HP53A) to 24:00 hours 1999.06.28.

NOTE #1: Worked on pump #1 & 2, 1 head, 1 suction valve and 1 seat.
NOTE #2: Hole condition very good on trip out.
Background gas 65 units, Drilled gas up to 720 units
Connection gas 150 units.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/29
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 100 DEPTH: 1852.00 m PROGRESS: 12.00 m CPA NO.: 300N616040123300

WEATHER: Overcast (Rain & Wind) TEMP: 10 °C
8:00 a.m. OPERATION: Tripping in hole with bit #16

DRILLING & GEOLOGICAL REMARKS (Cont'd)

NOTE #3: Cleaned Settling tanks #4 & 5. Cleaned sand trap.
0.3m of cuttings and solids in bottom of tanks.
NOTE #4: Hole Fill on trip. Measured: 14.26m3, Calculated: 12.26m3.
Difference: 2.0m3.

REPORTED BY: B.Shudra J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

Date	JUNE 29/99
Company	Canadian Forest Oil
LSD:	300-N61-6040-12330-0
Job #	90-3031
Co.Rep	Jack Brazel/Bill Shudra
Depth in:	**1852m** **Date In:** JUNE 29/99
Depth out:	**Date Out**

BHA:# 3

ITEM	DESCRIPTION	VENDOR	SERIAL #		OD/ID	CONN	LENGTH	TOTAL L
1	EHP-53A 3x20's BIT	REED	MM9061	P	311	6 5/8 Reg	0.30	0.30
2	MOTOR	G.O.T.	96065	B	236	6 5/8 Reg		
				B	N/A	7 H90	8.02	8.32
3	MWD COLLAR	W.S.I.	17005	P	223	7 H90		
				B	82	7 H90	9.31	17.63
4	TRANS. SUB	W.S.I.	TXS-8010	P	226	7 H90		
				B	N/A	7 H90	1.90	19.53
5	SHOCK SUB	FASTER	31634	P	228	7 H90		
				B	76	7 H90	3.87	23.40
6	3 DC's	AKITA		P	228	7 H90		
				B	74	7 H90	27.20	50.60
7	JAR	FASTER	10156	P	218	7 H90		
				B	65	7 H90	5.37	55.97
8	5 DC's	AKITA		P	228	7 H90		
				B	74	7 H90	46.31	102.28
9	X/O	AKITA		P		7 H90		
				B		5 H90	1.37	103.65
10	6 DC's	AKITA		P	178	5 H90		
				B	58	5 H90	57.29	160.94
11	X/O	AKITA		P	172	5 H90		
				B	75	4 1/2 IF	1.41	162.35
12	3 HWDP	AKITA		P	127	4 1/2 IF		
				B	75	4 1/2 IF	27.32	189.67
13	TBR	FASTER		P	169	4 1/2 IF		
				B	60	4 1/2 IF	1.71	191.38
14	6 HWDP	AKITA		P	127	4 1/2 IF		
				B	75	4 1/2 IF	54.62	246.00

DD:	B. JACKSON	**Meterage:**		**W** kg/m3	1375	**Rig:**	Akita 58
ABH:	1.5 Deg	**Drlg Hrs:**		**Q** m3/min	2.2	**Pump #1**	Emsco
B.T.S:	15M with 1m Off Bottom	**ROP:**		**spm:**	80 x 2	Liner / Stk:	6 / 254
INC:	Start 3.6	**Bit W:**		**PP On:**		**Pump #2**	Emsco
AZM:	Start 75.1	**WOB:**	26\36	**PP Off:**		Liner / Stk:	6 / 254

Comments		
Both pumps Emsco 1000's	wt of string in air	(daN) 0
Start Tie in Point Survey # 71 @ 1530m 9.1 Deg, 58 Azi.	wt. apparent	(daN) 0
Requested drop rate of 1 deg/30m.	wt of collars in air	(daN) 0
	wt. apparent	(daN) 0
	str. apparent below jars	(daN) 0
	str. apparent above jars	(daN) 0

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/28
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 99
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 6 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1840.00 m | PROGRESS: 21.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1849.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 52151 | CUMULATIVE COST: $ 9676395

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m | WT. BELOW JARS: 16000 daN | JAR HRS: 316.5 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1586.6

WT. ON BIT: 26000 daN | ROTARY RPM: 70+35 | STRING WT.: 80000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RND	BIT WT daN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	O	R	REMARKS
1S	311.0	Reed	MM9024	HP63	14.3	14.3	14.3	1693		147	1.3	110.75		25-26	70									
										0				-										
										0				-										

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
77	1380/1380	10.2	12.0	1.5	14/ 28.0	14./19.	195.00		0.018	30			1300	400	0.4	2.1	/ 47
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	83	1.15	Emsco	152	254	83	1.15	13400	36.4	65.5	79.2	185.52

SURVEYS

			AZIMUTH
4.30	° @	1812.60 m	67.00
4.00	° @	1822.20 m	72.30
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	

TIME BREAKDOWN

DRILLING	21.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	200
Lignite	3
Starpak	3
Drispac	2
Desco	3
Potassium	45
Sulph-acid	1
Sod-Sulph	4
Percol 728	
Corinox	4
Lime	

MUD COMMENTS: K+Ion - 26000, Polymer - 3.1, Sulfite - 256. MWD> BHT. 56 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.27 @ 00:00 Hours:
Drilled 311mm hole with mud motor (1.5 degree bend), surveying as required, from 1819-1840mKB at 24:00 hours 1999.06.27.
Note #1: Worked on pump #2. Replaced 1 head and liner, 3 suction valves, 1 seat and 1 discharge valve.
Note #2: Hole condition very good. Just drill cuttings coming over shaker on slides. While rotating, some slivers and chunks of shale coming over shaker.
#3: Background gas 65 units, drilled gas up to 380 units. Connection gas 150 units.

SUPERVISOR: B.Shudra/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/27
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 98
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast , Rain TEMP: 8 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1819.00 m PROGRESS: 29.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1828.00 m 8:00 a.m. OPERATION: Drilling 311 mm hole with mud motor

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 68569 CUMULATIVE COST: $ 9624244

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 316.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1565.1

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 80000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
15	311.0	Reed	MM9024	HP63	14.3	14.3	14.3	1693		126	1.4	89.25		25-26	70								
										0				–									
										0				–									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	ALKALINITY MPO	°C IN/OUT
72	1370/1370	10.6	11.4	1.5	14/ 26.0	13./18.	180.00		0.025	30			1350	320	0.4	2.6	/ 47
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
4 HR IN 1370 kg/m3 OUT 2200 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	13400	35.7	64.4	77.9	174.74

SURVEYS

			AZIMUTH
4.90	@	1793.20 m	61.60
4.50	@	1802.80 m	64.80
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	21.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.00	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Barite	10
Lignite	1
Starpak	
Chemcide	1
Desco	1
Potassium	28
Alcomer110	
Sod-Sulph	5
Percol 728	1
Corinox	3
Drispac	
Lime	3

MUD COMMENTS: K+Ion - 23500, Polymer - 3.0, Sulfite - 256. MWD> BHT. 54 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.26 @ 00:00 hours
Drilled 311 mm hole with mud motor(1.5 degree bend) with surveys as required from 1797-1819mKB @ 24:00 hrs 1999.06.26
NOTE 1.Jacked rig to level.(Rocky Davis Jacking Service)
NOTE 2.Worked on pumps. Changed discharge spring.
NOTE 3.Hole condition very good, just drill cuttings coming over shaker.
Background gas 50 units, Drilled gas up to 120 units
Connection gas 150 units.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/26
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 97
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 5BE | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 10 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1790.00 m | PROGRESS: 32.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1802.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 53894 | CUMULATIVE COST: $ 9555675

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m | WT. BELOW JARS: 16000 daN | JAR HRS: 316.5 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1543.9

WT. ON BIT: 26000 daN | ROTARY RPM: 70+35 | STRING WT.: 80000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32nds 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RWD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
15	311.0	Reed	MM9024	HP63	14.3	14.3	14.3	1693		97	1.4	68.00		25-26	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
75	1365/1365	10.3	10.4	1.5	15/ 30.0	16./23.	180.00		0.030	30			1350	320	0.4	3.9	/ 47
74	1360/1360	10.5	10.8	1.0	/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	13400	35.7	64.4	77.9	173.84

SURVEYS

		AZIMUTH
5.10 °	@ 1755.00 m	64.10
5.10 °	@ 1764.60 m	63.70
5.10 °	@ 1774.20 m	60.20
5.00 °	@ 1783.70 m	61.30
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Sulph-acid	1
Lignite	5
Starpak	3
Chemcide	1
Desco	7
Potassium	50
Alcomer110	
Sod-Sulph	3
Alkpam1103	
Corinox	2
Drispac	1
Lime	3

MUD COMMENTS: K+Ion - 22000, Polymer - 2.8, Sulfite - 192. MWD> BHT. 54 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.25 @ 00:00 hours:
Drilled 311 mm hole with mud motor(1.5 degree bend)surveying as required, from 1768-1790 mKB at 24:00 hours 1999.06.25.

Note1: Safety meeting with Akita crew was held.

Note2: Hole condition very good,just drill cuttings coming over shaker. Cuttings are sticky and ball up on shaker Background gas 40 units. Drilled gas from 1765 mKB to 1773 mKB, 150 to 200 units,no connection gas.

SUPERVISOR: B.Shudra J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

NEB RANGER

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/25
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 96
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Scattered Cloud	TEMP: 8 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1758.00 m	PROGRESS: 30.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1771.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with mud motor at 1.7m/hour.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 58548 CUMULATIVE COST: $ 9501781

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 230.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1522.2

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 80000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD.	BIT WT.daN	BIT RPM	CUTTING STRUCT 1	2	3	4	5	6	7	REMARKS 8	REMARKS R
15	311.0	Reed	PR9024	HP63	14.3	14.3	14.3	1693		65	1.2	53.50		25-26	70									
										0				-										
										0				-										

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY PM	P C IN/OUT
77	1370/1370	10.4	11.9	1.5	13/ 28.0	13. /20.	180.00		0.025	30			1300	320	0.4	2.2	/ 47
73	1360/1360	10.5	10.3	1.0	/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
2 HR IN	1370 kg/m3	OUT	1220 kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	13400	35.7	64.6	77.9	174.10

SURVEYS

			AZIMUTH
6.00	@	1725.90 m	63.80
5.60	@	1736.10 m	66.70
5.30	@	1745.40 m	69.60
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	0.25
MNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Gel	22
Lignite	2
Enviroflo	2
Chemcide	1
Barite	23
Potassium	48
Alcomer110	1
Sod-Sulph	3
Alkpam1103	1
Corinox	3
Gypsum	2
Lime	3

MUD COMMENTS: K+Ion - 26000, Polymer - 3.0, Sulfite - 256. MWD> BHT. 50 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc, Sequence of Operations to be reported below.)

1999.06.24 @ 00:00 Hours:

Drilled 311mm hole with mud motor 1.5 degree bend, with surveys as required, from 1728-1758mKB at 24:00 hours 1999.06.24.

Note #1: Held fire drill with camp personnel.

#2: Held BOP drill with Akita crew.

Note #3: Hole condition very good, just drilled cuttings coming over shaker.

#4: Background gas 40 units, gas peaks on connections 200 units.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/24
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 95
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 7 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1728.00 m PROGRESS: 29.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1739.00 m 8:00 a.m. OPERATION: Drilling 311mm hole with mud motor.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 68035 CUMULATIVE COST: $ 9443233

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 230.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1499.5

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 79000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
15	311.0	Reed	MM9024	MP63	14.3	14.3	14.3	1693		35	1.1	30.75		25-26	70								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	ML cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
65	1375/1375	10.6	9.0	1.5	14/ 25.0	13./19.	180.00		0.025	28			1350	240	0.4	2.4	/ 43
65	1360/1360	10.5	10.3	1.0	/	/											/

CENTRIFUGE				DESILTER	DESANDER	DECASSER	TOTAL MUD DUMPED
18 HR IN	1370 kg/m3	OUT	1080 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	13200	35.7	64.4	77.9	174.48

SURVEYS

			AZIMUTH
5.90	@	1687.60 m	63.20
5.90	@	1696.90 m	62.90
6.20	@	1706.90 m	65.10
6.20	@	1716.60 m	66.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING		ORIENT	0.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	
Starpak	3
Chemcide	
Barite	
Potassium	41
Alcomer110	
Sod-Sulph	3
Mica	5
Corinox	2
Gypsum	3
Defoam xl	

MUD COMMENTS: K+Ion - 23500, Polymer - 3.0, Sulfite - 256. MWD> BHT. 50 C

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.23 @ 00:00 Hours:
Drilled 311mm hole with mud motor, 1.5 degree bend, surveying as required, from 1699-1728mKB at 24:00 hours 99.06.23.

Note #1: Seepage loss in fractures, 2.5m3 of mud.
#2: Sliding 3 metres per single.
#3: Hole condition very good. Just drill cuttings coming over shaker.
#4: Background gas 40 units. Gas peaks as high as 400 units, coming from small fractures from 1699-1721mKB.

SUPERVISOR: B.Shudra/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/23
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 94
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Cloudy TEMP: 5 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1699.00 m PROGRESS: 7.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1704.00 m 8:00 a.m. OPERATION: Directionally drill 311mm hole, sliding @ 0.7m/hour.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 68498 CUMULATIVE COST: $ 9375198

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 230.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1477.8

WT. ON BIT: 26000 daN ROTARY RPM: 70+35 STRING WT.: 79000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5-18	50	2	3	ct					
14	311.0	HW	M52YL	ATJ-33	14.3	14.3	14.3	1550	1693	143	1.9	74.75		19-24	70	6	8	BT	A	E	I	HC	PR
15	311.0	Reed	MM9024	HP63	14.3	14.3	14.3	1693		6	0.7	9.00		19-26	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drill. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
65	1375/1375	10.6	11.4	1.5	15/ 23.5	13./17.	180.00		0.025	28			1400	240	0.4	2.6	/ 43
	/				/	/											/

CENTRIFUGE: 18 HR IN 1375 kg/m3 OUT 1080 kg/m3 | DESILTER: HR OUT kg/m3 | DESANDER: HR OUT kg/m3 | DEGASSER: HR OUT kg/m3 | TOTAL MUD DUMPED: m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	13200	35.7	64.4	77.9	175.37

SURVEYS

			AZIMUTH
6.30	@	1678.30 m	61.10
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	10.00	BOP DRILL	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	1.50
COND MUD		TRIPPING	8.25
SURVEYING	0.75	SLIP & CUT	0.75
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	1.75	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Lignite	
Starpak	3
Chemcide	1
Barite	50
Potassium	
Alcomer110	
Sod-Sulph	2
Mica	5
Corinox	2
Gypsum	
Defoam xl	

MUD COMMENTS: K+Ion - 23500, Polymer - 2.8, Sulfite - 224.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.22 @ 00:00 Hours:
Surveyed. Made 10 stand wiper trip to check gas influx. Drilled to 1693mKB. Tripped for new bit. Slipped and cut drilling line. Tested MWD. Worked on pump. Ran in hole with bit #15. Directionally drilled 311mm hole to 1699mKB at 24:00 hours 1999.06.22.

Note #1: Hole good on trip, flow checks good, bottoms up gas 29%.
#2: Hole fill: Calculated: 11.66m3, Actual: 13.32m3, Difference: 1.66m3.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/22
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 93
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Rain TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1692.00 m PROGRESS: 16.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1693.00 m 8:00 a.m. OPERATION: Trip for new bit.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60882 CUMULATIVE COST: $ 9306700

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 220.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1467.8

WT. ON BIT: 24000 daN ROTARY RPM: 70+35 STRING WT.: 79000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	NAME	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RRD.	BIT WT daN	RPM	CUTTING STRUCT 1	2	D	L	B	G	REMARKS D	R
12	311.0	REED	KT296B	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5-18	50	2	3	ct					
14	311.0	HW	MS2YL	ATJ-33	14.3	14.3	14.3	1550		142	1.9	73.75		19-24	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	Ml ml/30min	FC mm	PV/YP	GELS 0/10	Yp lb/100 kg/m²	Oil % vol	SAND kg/m³	BENTONITE kg/m³	LCM kg/m³	Oil %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
70	1350/1350	10.6	10.0	1.5	15/ 27.0	14./20.	180.00		0.025	30			1300	280	0.4	2.2	/ 44
	/				/	/											/

CENTRIFUGE: 4 HR IN 1345 kg/m³ OUT 1080 kg/m³ | DESILTER: HR OUT kg/m³ | DESANDER: HR OUT kg/m³ | DEGASSER: HR OUT kg/m³ | TOTAL MUD DUMPED: m³

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m³/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m³/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Ensco	152	254	82	1.13	Ensco	152	254	82	1.13	9200	35.7	64.4	77.9	172.18

SURVEYS

		AZIMUTH
6.60°	@ 1668.00 m	59.20
6.40°	@ 1677.40 m	61.50
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	1.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Lignite	2
Starpak	3
Chemcide	1
Barite	572
Potassium	14
Alcomer110	1
Sod-Sulph	4
Lime	2
Corinox	3
Gypsum	6
Defoam xl	

MUD COMMENTS: K+Ion 24500, Polymer 3.0, Sulfite 256.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.06.21 @ 00:00 Hours:
Directionally drilled 311mm hole, with surveys and rig services as required, from 1676-1692mKB. Repaired MWD transducer and #2 mud pump. Pulled 8 stand wiper trip. 33.35% trip gas indicated. Raised mud density to control gas influx to 24:00 hours 1999.06.21.

Note: Due to 3 days of heavy rain the bridge south of the camp on the way to the Amoco Gas Plant washed out last night. The condition of the rest of the road is unknown.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 05/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 92
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Raining	TEMP: 9 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1676.00 m	PROGRESS: 42.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1680.00 m	8:00 a.m. OPERATION: Directionally drilling 311mm hole at 1m/hour.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60453 CUMULATIVE COST: $ 9245818

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 199.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1446.8

WT. ON BIT: 21000 daN ROTARY RPM: 70+35 STRING WT.: 79000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10–	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5–18	50	2	3	ct					
14	311.0	HW	M52YL	ATJ-33	14.3	14.3	14.3	1550		126	2.4	52.75		19–21	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	PF	°C IN/OUT
77	1320/1320	10.3	11.8	1.5	14/ 27.5	16./20.	143.00		0.030	30			1350	160	0.4	2.3	/ 42
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4	77.9	168.36

SURVEYS

			AZIMUTH
7.80	@	1630.50 m	59.30
7.60	@	1640.10 m	58.40
7.20	@	1649.40 m	58.70
6.80	@	1658.10 m	59.70
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	21.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	2
Starpak	3
Chemcide	1
Barite	375
Potassium	56
Alcomer110	1
Sod-Sulph	3
Lime	1
Corinox	3
Percol 728	1
Defoam xl	3

MUD COMMENTS: Polymer 1.9, K+Ion 26000, Sulfite 180.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.06.20 @ 00:00 Hours:
Directionally drilled 311mm hole with motor and MWD, with surveys and rig services, from 1634-1676mKB at 24:00 hours 1999.06.20.

Note #1: Changed two seats, valves and head in #1 pump.
#2: Repaired wet connection on MWD.
Note #3: Raised mud density to control gas influx. Getting 8 to 10% gas increases over background on connections.
#4: Density at 1677mKB-1310 kg/m3.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/20
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 91
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Windy	TEMP: 14 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1634.00 m	PROGRESS: 63.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1648.00 m	8:00 a.m. OPERATION: Directionally drilling 311mm hole at 3m/hour.		

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 75643 CUMULATIVE COST: $ 9185365

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 178.2 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1425.6

WT. ON BIT: 20000 daN ROTARY RPM: 70+35 STRING WT.: 79000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT ORL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
12	311.0	REED	KT2949	EHPS3A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5-18	50	2	3	ct					
14	311.0	HW	M52YL	ATJ-33	14.3	14.3	14.3	1550		84	2.7	31.50		19-21	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS Q/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
74	1270/1270	10.5	10.2	1.5	16/ 23.0	13./20.	140.00		0.025	30			1100	260	0.3	1.8	/ 42
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4	77.9	161.98

SURVEYS

		AZIMUTH
9.00°	@ 1563.60 m	58.20
8.60°	@ 1572.70 m	58.80
8.40°	@ 1582.90 m	58.00
8.40°	@ 1592.60 m	59.30
8.40°	@ 1601.60 m	59.80
8.40°	@ 1612.10 m	59.50
8.10°	@ 1621.90 m	58.70
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	1
Starpak	3
Chemcide	1
Barite	354
Potassium	62
Caustic	1
Sod-Sulph	5
Lime	3
Corinox	4
Desco	1
Gel	36

MUD COMMENTS: K+Ion - 23500, Polymer - 2.0, Sulfite - 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.19 @ 00:00 hours: Drilled 311mm hole with mud motor and MWD, surveying as required and with rig services, from 1571-1634mKB at 24:00 hours 1999.06.19.

Note(1) Peak of 25.94% gas from zone at 1610-1611mKB.

Influx continued, raised density to 1270 kg./m3.

Gas down to 12% prior to connection at 1645mKB, up to 21% after connection. Raised density to 1280kg/m3.

Note(2) Sliding 3 metres per single.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/19
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 90
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 14 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1571.00 m	PROGRESS: 21.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1586.00 m	8:00 a.m. OPERATION: Drilling 311 mm hole at 3.3 m/hr.	

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 68645 CUMULATIVE COST: $ 9109722

BHA

1	Bit	1	Motor 1.5Deg	1	MWD DC	1	Trans. Sub	1	Shock sub
3	Drill Collar	1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar
1	Xo sub	3	HWDP	1	TBR	6	HWDP		

LENGTH: 246.25 m WT. BELOW JARS: 16000 daN JAR HRS: 156.2 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1403.6

WT. ON BIT: 21000 daN ROTARY RPM: 70+35 STRING WT.: 76000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10–	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5–18	50	2	3	ct					
14	311.0	HW	M52YL	ATJ-33	14.3	14.3	14.3	1550		21	2.2	9.50		19–21	70								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Co ppm	ALKALINITY MFI	MFO	°C IN/OUT
81	1225/1225	10.5	10.0	1.5	13/ 27.5	13. /18.	135.00		0.025	30			1100	320	0.4	2.2	/ 44
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN 1230 kg/m3 OUT 1080 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4	77.9	156.24

SURVEYS

	AZIMUTH
9.10° @ 1544.20 m	57.40
9.00° @ 1554.20 m	58.00
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	9.50	BOP DRILL	
HNDL TOOLS	5.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	7.50
SURVEYING	0.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Defoam xl	
Starpak	
Chemcide	
Barite	
Potassium	
Caustic	
Sod-Sulph	2
Lime	1
Corinox	2
Soda Ash	1
Gel	15

MUD COMMENTS: K+Ion - 23500, Polymer - 2.0, Sulfite - 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.18 @00:00 hrs. Finished inspecting DC's. Picked up directional tools.Ran in hole,picked up 15 singles,surveyed, oriented, drilled 311mm hole from 1550-1571mKB with motor and MWD, surveying as required, to 24:00 hours 1999.06.18.
Note(1) Hole in good condition on trip in, no fill.
Note(2) Sliding 2 metres per single.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/19
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 90 DEPTH: 1571.00 m PROGRESS: 21.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 14 °c
8:00 a.m. OPERATION: Drilling 311 mm hole at 3.3 m/hr.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

MWD check shots running in;- 766 m - 2.1 deg. - 45.5 Az.
909 m - 3.7 deg. - 54.2 Az.
1141 m - 6.4 deg. - 52 Az.
1342 m - 5.5 deg. - 62 Az.
1430 m - 5.9 deg. - 56.1 Az.
1535 m - 9.2 deg. - 57.4 Az.
1544 m - 9.1 deg. - 57.4 Az.

REPORTED BY: M.Rogerson J.Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
J.W.I.: 300-N61-6040-12330-0
LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300
DATE: 99/06/18
DAY: 89
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E
KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: 13 °C
Midnight DEPTH: 1550.00 m PROGRESS: 14.00 m
8:00 a.m. DEPTH: 1550.00 m 8:00 a.m. OPERATION: Running in with motor and MWD.
FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 59032 CUMULATIVE COST: $ 9041077

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	SIBS
1	Drill Collar	1	3PT Reamer Q	1	Shock Sub	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 159.81 m WT. BELOW JARS: 16000 daN JAR HRS: 146.7 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1394.1

WT. ON BIT: 5000 daN ROTARY RPM: 70 STRING WT.: 76000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS On BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487	1550	63	1.3	49.00		5-18	50	2	3	ct			I	WT	BHA

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	ML cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY PMF	PMO	°C IN/OUT
94	1225/1225	10.3	10.5	1.5	14/ 28.0	12./18.	135.00		0.025	30			1100	320	0.3	2.1	/ 43
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN 1220 kg/m3 OUT 1080 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4		0.00

SURVEYS

		AZIMUTH
8.80 °	@ 1540.00 m	59.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	15.00	BOP DRILL	0.25
HNDL TOOLS	4.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	1.00
COND MUD		TRIPPING	2.50
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Defoam xl	
Starpak	
Chemcide	1
Barite	40
Potassium	56
Caustic	
Sod-Sulph	4
Lime	2
Corinox	3
Lignite	4
Desco	

MUD COMMENTS: K+Ion 24000, Polymer 2.1, Sulfite 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.17 @ 00:00 Hours:
Drilled 311mm hole from 1536-1550mKB. Rig serviced.
Surveyed. Circulated bottoms up. Hoisted out and inspected HWDP and DCs to 24:00 hours 1999.06.17.
Note #1: Lithology: Shale with up to 40% marlstone, and up to 10% limestone with some chert.
Note #2: Hole good on trip out, not many cavings at shaker.
#3: Inspection of BHA found one cracked box on 178mm DC.
#4: Bend housing on motor assembly set at 1.5 degrees.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/17
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 88
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 15 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1536.00 m | PROGRESS: 31.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1541.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole at 1m/hour.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 56918 | CUMULATIVE COST: $ 8982045

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	SIBS
1	Drill Collar	1	3PT Reamer Q	1	Shock Sub	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 159.81 m | WT. BELOW JARS: 16000 daN | JAR HRS: 131.7 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1379.1

WT. ON BIT: 7000 daN | ROTARY RPM: 50/75 | STRING WT.: 76000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487		49	1.4	34.00		5-14	50								

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
105	1210/1215	9.9	10.8	1.5	15/ 26.0	13./21.	135.00		0.025	30			1100	280	0.2	1.9	/ 43
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
6 HR IN	1230 kg/m3	OUT	1050 kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4	75.0	143.70

SURVEYS

		AZIMUTH
8.80 °	@ 1501.00 m	57.00
8.70 °	@ 1511.00 m	56.00
9.40 °	@ 1521.00 m	59.00
9.10 °	@ 1530.00 m	58.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.75	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Defoam xl	
Starpak	3
Chemcide	2
Barite	30
Potassium	
Caustic	1
Sod-Sulph	6
Lime	5
Carinox	3
Lignite	6
Desco	5

MUD COMMENTS: K+Ion 23,500, Polymer 2.5, Sulfite 240

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.16 @ 00:00 Hours:
Drilled 311mm hole, with rig services and surveys as required, from 1505-1536mKB at 24:00 hours 1999.06.16.

Note #1: Lithology: Some samples as high as 30% marlstone, up to 20% limestone, chert stringers.

Note #2: Will trip this morning to pick up MWD and Mud Motor to turn drift angle down to +/- 3 degrees.

SUPERVISOR: M.Rogerson/J.Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/16
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 87
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 11 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1505.00 m | PROGRESS: 18.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1511.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 76749 | CUMULATIVE COST: $ 8925127

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	SIBS
1	Drill Collar	1	3PT Reamer @	1	Shock Sub	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 159.81 m | WT. BELOW JARS: 16000 daN | JAR HRS: 110.0 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1357.4

WT. ON BIT: 7000 daN | ROTARY RPM: 50/60 | STRING WT.: 76000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	1	3	IN	OUT			DRL.	RND	WT#N	RPM	I	O	D	L	B	G	O	R
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA
13	311.0	SEC	5995957	FM2743	10.3	10.3	10.3	1487		18	1.5	12.25		5- 9	50								

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY MFO	°C IN/OUT
67	1210/1215	10.3	10.8	1.5	11/ 20.0	11./16.	135.00		0.025	30			1100	320	0.3	2.0	/ 41
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DESASSER		TOTAL MUD DUMPED
10 HR IN	1230 kg/m3	OUT	1170 kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	82	1.13	Emsco	152	254	82	1.13	9200	35.7	64.4	75.0	143.70

SURVEYS

		AZIMUTH
8.30°	@ 1492.00 m	56.00
8.80°	@ 1501.00 m	57.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	12.25	BOP DRILL	0.25
HNDL TOOLS	1.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	4.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		PRESS TEST	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING	4.00		

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Defoam xl	1
Starpak	3
Chemcide	
Barite	
Potassium	30
Sulph-acid	
Sod-Sulph	2
Lime	2
Corinox	1
Lignite	2
Gypsum	

MUD COMMENTS: K+Ion 22,000, polymer 2.2, sulfite 180.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.15 @ 00:00 Hours:
Retrieved 13 3/8" Baker test packer. Function tested blind rams when out of hole. Made up bit #13, changed BHA and tripped to 1401mKB. Broke circulation. Reamed bridges from 1401-1487mKB. Broke in bit #13. Drilled 311mm hole, with surveys as required, to 1505mKB at 23:59 hours 1999.06.15.

Note #1: Put in DBS PDC bit. This bit drilled very well in 100% shale sections. Penetration rate at +/- 5m/hour. The problem we are experiencing is that there are only short sections (1-3m) of 100% shale. Most of what we are drilling is laminated shale with marlstone containing pyrite and chert. Also some

SUPERVISOR: M.Rogerson/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 88/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/16
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 87 DEPTH: 1505.00 m PROGRESS: 18.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 11 °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

siltstone. Average penetration in this stuff is 1.5m/hour.
Note #2: Deviation held on the first single drilled with this PDC run on a pendulum assembly. Suspect the hard laminated zone is continuing to push the bit off vertical.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 04/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/15
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 86
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 11 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1487.00 m | PROGRESS: 4.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1487.00 m | 8:00 a.m. OPERATION: Break in bit #13 and drill 311mm hole.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 43746 | CUMULATIVE COST: $ 8848378

BHA

1 Bit	1 Bit Sub	1 Monel Dc	1 Short DC	1 Shock Sub
1 3PT Reamer Q	1 Drill Collar	1 3PT Reamer Q	2 Drill Collar	1 Drilling Jar
5 Drill Collar	1 XO Sub	6 Drill Collar	1 Xo sub	

LENGTH: 158.43 m | WT. BELOW JARS: 16000 daN | JAR HRS: 97.8 | JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1345.2

WT. ON BIT: 10000 daN | ROTARY RPM: 65/70 | STRING WT.: 75000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406	1487	81	1.2	68.00		10-	55	2	3	WT	A	E	I	BT	BHA

LAST PIPE TALLY: 1083.30 | BOARD: 1083.93 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pf	°C IN/OUT
65	1230/1220	10.3	10.3	1.5	13/ 20.0	12./17.	135.00		0.025	28			1100	320	0.4	2.0	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11600	35.1	63.2		0.00

SURVEYS

		AZIMUTH
8.30 °	@ 1482.00 m	57.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	3.50	BOP DRILL	
HNDL TOOLS	0.50	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	0.75
COND MUD		TRIPPING	7.75
SURVEYING	0.25	SLIP & CUT	
RUN CSG		PRESS TEST	10.50
CLN TO BTM		W.O.C.	
REPAIRS	0.50	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	
Alcomer110	
Starpak	
Chemcide	
Barite	42
Potassium	
Sulph-acid	
Sod-Sulph	
Lime	
Corinox	
Lignite	
Gypsum	

MUD COMMENTS: K +Ion 23,500, polymer 2.1, sulfite 200.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.14 @ 00:00 Hours:
Drilled 311mm hole from 1483-1487mKB, surveyed as required. Circulated bottoms up, mixed pill, tripped bit #12. Flow checked as required. Function tested blind rams when out of hole. Removed wear bushing, installed test plug. Pressure tested BOP and BOP related equipment to 1500 kPa low and 13,000 kPa high for 15 minutes each. Repaired BOP valve (sheared pin on stem assembly). Made up 13 3/8" Baker packer, tripped to 718mKB. Seated packer. Pressure tested casing to 1500 kPa low and 13,000 kPa high for 15 minutes, okay. Function tested accumulator and remotes, okay. Unseated Baker packer and tripped to retrieve packer to

SUPERVISOR: M.Rogerson/D.Solberg | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/15
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 86 DEPTH: 1487.00 m PROGRESS: 4.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 11 °C
8:00 a.m. OPERATION: Break in bit #13 and drill 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

24:00 hours 1999.06.14.

Note #1: Hole Fill: Actual: 12.46m3, Calculated: 10.71m3, Difference: 1.75m3.
#2: Preformed BOP tests with Inland Pressure Testers.
#3: Conducted field trip of rig and camp facilities with 11 members of the Ft. Liard high school.
#4: Hole Drag: 2,000 daN up, 2,000 daN down.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/14
U.W 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 85
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear TEMP: 7 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1483.00 m PROGRESS: 18.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1486.00 m	8:00 a.m. OPERATION: Tripping bit #12. Prepare to conduct 30 day pressure test.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 47624 CUMULATIVE COST: $ 8804632

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	Shock Sub
1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 158.43 m WT. BELOW JARS: 16000 daN JAR HRS: 94.3 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1341.7

WT. ON BIT: 10000 daN ROTARY RPM: 65/70 STRING WT.: 75000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHPS3A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHPS3A	12.7	12.7	12.7	1406		77	1.2	64.25		10-	55								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
67	1220/1230	10.5	11.8	1.5	14/ 22.0	13./19.	140.00		0.025	27			1100	320	0.4	2.1	/ 44
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
16 HR IN 1230 kg/m3 OUT 1170 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11800	35.1	63.2	97.0	238.04

SURVEYS

		AZIMUTH
7.60 °	@ 1462.00 m	60.00
8.00 °	@ 1472.00 m	58.00
8.30 °	@ 1482.00 m	57.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Alcomer110	1
Starpak	2
Chemcide	1
Barite	
Potassium	20
Sulph-acid	
Sod-Sulph	4
Lime	3
Corinox	3
Lignite	4
Gypsum	

MUD COMMENTS: K+Ion 23,500, polymer 1.8, sulfite 200. Stripped 5m3 mud.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.13 @ 00:00 Hours:

Drilled 311mm hole from 1465-1483mKB with 10,000 daN, 70 RPM and surveyed as required to 24:00 hours 1999.06.13.

Note #1: Lithology: 1465-1470mKB: 100% shale (faulted).
1470-1475mKB: 100% shale (faulted).
1475-1480mKB: 85% shale, 15% marlstone.

Note #2: Stripped 5m3 mud from active system.

#3: Hole Drag: 3,000 daN up, 2,000 daN down.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/13
U. 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 84
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m		SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m		RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 6 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1465.00 m	PROGRESS: 40.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1469.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.		

AFE #: A983003 **AFE AMT:** $1125370.00 **DAILY COST:** $ 69342 **CUMULATIVE COST:** $ 8757008

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	Shock Sub
1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 158.43 m WT. BELOW JARS: 16000 daN JAR HRS: 71.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1319.0

WT. ON BIT: 10000 daN ROTARY RPM: 65/70 STRING WT.: 74000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	S44826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406		59	1.4	41.50		15-10	55								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
65	1215/1220	10.3	10.4	1.5	13/ 23.0	13. /18.	135.00		0.025	28			1000	320	0.3	2.0	/ 41
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	11700	35.1	63.2	97.0	236.69

SURVEYS

		AZIMUTH
5.40°	@ 1424.00 m	63.00
5.80°	@ 1434.00 m	54.00
7.30°	@ 1443.00 m	59.00
7.70°	@ 1453.00 m	56.00
7.60°	@ 1462.00 m	60.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	21.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	2
Chemcide	
Barite	
Potassium	24
Sulph-acid	
Sod-Sulph	1
Lime	3
Corinox	1
Lignite	2
Gypsum	

MUD COMMENTS: K-Ion -24,500, polymer -1.8, sulfite -180.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.12 @00:00hrs. Drilled 311 mm hole from 1425 mKB to 1448 mKB, surveyed as required.(WOB -15,000 daN,RPM -65) Drilled 311 mm hole to 1458 mKB. (WOB -12,000 daN,RPM -70) Surveyed at 1453 m. Drilled 311 mm hole to 1465 mKB. (WOB -10,000 daN,RPM -70) to 24:00 hours 1999.06.12.

Note(1) Lithology

: 1425 - 1430 75% limestone, 15% shale, 10% marlstone.
: 1430 - 1435 85% shale, 15% limestone.
: 1435 - 1455 100% shale
: 1455 - 1460 100% shale
: 1460 - 1465 100% shale

Note(2) Encountered fault at 1465mKB.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 88/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/13
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 84 DEPTH: 1465.00 m PROGRESS: 40.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 6 °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note(3) Fuel on hand as of 1999.06.12. Diesel:355.5m3,Gasoline:109.5m3.
Note(4) Fuel used since 1999.05.23: Diesel:104m3. Gasoline:4.5m3.
Note(5) Top of shale encountered at 1428.4mKB. Continued to drill cautiously ahead. As the survey jumped out significantly at 1443mKB, pulled weight off bit and increased RPM. Surveyed after another single. Angle continued to increase, decreased WOB to 10,000 daN and proceeded to drill ahead. Did not want to hoist and change bit and BHA just prior to entering the proposed fault at 1465mKB. Decided to drill through fault and see how the drilling assembly would react before tripping out to change it.

REPORTED BY: M.Rogerson D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/12
U.W. 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 83
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 1.2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1425.00 m	PROGRESS: 19.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1436.00 m	8:00 a.m. OPERATION: Drilling 311 mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 59276 CUMULATIVE COST: $ 8687666

BHA

1	Bit	1	Bit Sub	1	Monel Dc	1	Short DC	1	Shock Sub
1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub		

LENGTH: 158.43 m WT. BELOW JARS: 16000 daN JAR HRS: 49.8 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1297.3

WT. ON BIT: 15000 daN ROTARY RPM: 55/65 STRING WT.: 74000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406		19	1.0	19.75		15-	55								

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFT	MFO	°C IN/OUT
60	1210/1215	10.0	10.9	1.5	12/ 19.5	12./16.	135.00		0.025	28			1100	380	0.4	2.1	/ 39
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
5 HR IN 1225 kg/m3 OUT 1215 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	11600	35.1	63.2	97.0	235.71

SURVEYS

		AZIMUTH
6.00 °	@ 1405.00 m	57.00
6.30 °	@ 1414.00 m	65.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	19.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	2.75
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Alcomer110	
Starpak	
Chemcide	
Barite	
Potassium	14
Sulph-acid	
Sod-Sulph	2
Lime	
Corinox	2
Lignite	2
Gypsum	1

MUD COMMENTS: K+Ion - 24,500, Polymer - 2.1, Sulfite - 240.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.11 @ 00:00 hours. Function tested blind rams once out of hole. Made up bit #12. Tripped to 1382mKB. Broke circulation. Washed 18m to bottom. Broke in bit #12. Drilled 311mm hole from 1406mKB to 1425mKB surveying as required to 23:59 hours 1999.06.11.

Note #1: Received 5 loads via Coopers Barging Service. Unloaded trucks and reloaded with backhauls.

#2: Lithology:
1405 - 1410mKB 50% shale, 40% limestone, 10% marlstone.
1410 - 1415mKB 60% limestone, 20% shale, 20% marlstone.
1415 - 1420mKB 40% shale, 35% limestone, 25% marlstone.

#3: Survey @ 1424 mKB: 5.4 degrees, 63 degrees azmuth.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/11
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 82
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 8 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1406.00 m PROGRESS: 15.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1409.00 m 8:00 a.m. OPERATION: Drilling 311mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42782 CUMULATIVE COST: $ 8628390

BHA

1 Bit	1 Bit Sub	1 Monel Dc	1 Short DC	1 Shock Sub
1 3PT Reamer Q	1 Drill Collar	1 3PT Reamer Q	2 Drill Collar	1 Drilling Jar
5 Drill Collar	1 XO Sub	6 Drill Collar	1 Xo sub	

LENGTH: 158.43 m WT. BELOW JARS: 16000 daN JAR HRS: 30.0 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1277.6

WT. ON BIT: 19000 daN ROTARY RPM: 65/70 STRING WT.: 74000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMO	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391	1406	15	0.8	18.25		15-19	65	6	6	WT	A	E	I	WT	PR
12	311.0	REED	KT2949	EHP53A	12.7	12.7	12.7	1406		0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
64	1210/1220	10.5	10.1	1.5	14/ 21.0	14./21.	135.00		0.025	30			1100	200	0.5	2.0	/ 39
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
5 HR IN 1225 kg/m3 OUT 1215 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11600	35.1	63.2	97.0	236.10

SURVEYS

			AZIMUTH
6.20	@	1396.00 m	61.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	18.25	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	0.50
COND MUD		TRIPPING	4.00
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	2
Chemcide	1
Barite	25
Potassium	47
Sulph-acid	
Sod-Sulph	1
Lime	2
Corinox	1
Lignite	4
Gypsum	2

MUD COMMENTS: k+Ion 24,500, Polymer 2, Sulfite -240

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations is to be inserted below.)

1999.06.10 @ 00:00 Hours:
Tripped in bit #11 from 820-1372mKB. Broke circulation, washed 19m to bottom. Drilled 311mm hole to 1400mKB. Held BOP drill, well secured in 1 minute. Rig serviced. Surveyed at 1396mKB. Drilled 311mm hole to 1406mKB. Circulated bottoms up, pumped pill, tripped bit #11. Flow checked as required. Hole good on trip. Tripped out to 24:00 hours 1999.06.10.

Note #1: Visit by Land Use Inspector, Kent Halvorson, and NWT government representatives, W. Comin and N. Scott. All inspection items acceptable.
#2: Hole Drag: 2000 daN up, 2000 daN down.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/11
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 82 DEPTH: 1406.00 m PROGRESS: 15.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 8 °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #3: Hole Fill: Actual: 10.9m3, Calculated: 10.1m3, Difference: 0.8m3.
#4: Lithology:
1390-1395mKB: 85% shale, 10% marlstone, 5% siltstone.
1395-1400mKB: 50% limestone, 35% shale, 15% marlstone.
1400-1402mKB: 45% limestone, 45% shale, 10% marlstone.
1402-1405mKB: 40% limestone, 40% shale, 20% marlstone.
#5: Tripped out bit #10RR at 1391mKB because the wellbore had entered the Besa River Shale at 1368mKB and the survey jumped from 5.4 degrees at 1367mKB to 6.6 degrees at 1386mKB. Attempting to decrease drift angle to 3 degrees or less. As we were in shale, and thought that we were going to be in shale for a while, and since we wanted to get the survey coming down with the pendulum assembly, we ran a tooth bit, the M44NG. This bit was tripped in at 1391mKB and initially drilled at 2.5-3m per hour. At 1397mKB we encountered a formation change to a much harder formation. Initially the geologist felt we would only have 12 metres of this hard formation, then go back to shale. At 20:30 hours 1999.06.10, at a depth of 1406mKB, the penetration rate slowed to 0.5m per hour. The wellsite geologist indicated that this harder zone may continue to 1418mKB, or deeper, not 1409mKB as previously predicted. Hoisted out bit as we expected it was dulled off.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/10
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 81
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 7.7 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1391.00 m PROGRESS: 25.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1400.00 m 8:00 a.m. OPERATION: Drilling 311mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 69750 CUMULATIVE COST: $ 8585608

BHA

1 Bit	1 Bit Sub	1 Monel Dc	1 Short DC	1 Shock Sub
1 3PT Reamer Q	1 Drill Collar	1 3PT Reamer Q	2 Drill Collar	1 Drilling Jar
5 Drill Collar	1 XO Sub	6 Drill Collar	1 Xo sub	

LENGTH: 158.43 m WT. BELOW JARS: 16000 daN JAR HRS: 30.0 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1259.4

WT. ON BIT: 15000 daN ROTARY RPM: 65/70 STRING WT.: 74000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMO	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305	1391	86	1.1	76.00		18-15	55	4	5	WT	A	E	I	BT	BHA
11	311.0	SEC	544826	M44NG	12.7	12.7	12.7	1391		0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
62	1210/1220	10.2	11.0	1.5	14/ 22.0	16./25.	135.00		0.025	32			1100	120	0.2	1.1	/ 39
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11600	35.1	63.2	97.0	236.10

SURVEYS

			AZIMUTH
5.40	@	1367.00 m	63.00
6.50	@	1378.00 m	64.00
6.60	@	1386.00 m	61.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	14.25	BOP DRILL	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.75
COND MUD		TRIPPING	6.50
SURVEYING	1.25	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Alcomer110	
Starpak	
Chemcide	1
Barite	30
Potassium	10
Sulph-acid	
Sod-Sulph	3
Lime	1
Corinox	2
Lignite	2
Gypsum	

MUD COMMENTS: K+Ion 23,000, Polymer 2.1, Sulfite 280

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.09 @ 00:00 Hours:
Drilled 311mm hole from 1366-1391mKB, surveying as required. Circulated bottom hole sample. Tripped bit #10RR. Flow checked as required. Hole good on trip. Rig serviced. Function tested blind rams and HCR when out of hole. Removed dog sub, changed bits and tripped in bit #11 to

24:00 hours 1999.06.09.
Note #1: Lithology: 1365-1370mKB: Limestone 45%, Shale 35%, Marlstone 15%, Siltstone 5%.
1370-1375mKB: Shale 75%, Limestone 15%, Siltstone 10%.
1375-1385mKB: Shale 100%, Siltstone (trace).

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CO 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/10
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 81 DEPTH: 1391.00 m PROGRESS: 25.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 7.7 °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

1385-1390mKB: Shale 90%, Marlstone 10%.
#2: Tripped to replace insert bit with tooth bit for deviation control.
#3: Hole Fill Volumes: Actual: 11.33m3, Calculated: 10.22m3, Difference: 1.11m3.
#4: Hole Drag: Up-2,000 daN, Down-3,000 daN.
#5: Total hours on bit #9, rerun as bit #10RR, were 103.75.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/09
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 80
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast	TEMP: 3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1366.00 m	PROGRESS: 20.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1380.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with 18,000 daN, RPM 55-60.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42562 CUMULATIVE COST: $ 8515858

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Monel Dc	1	Short DC
1	Shock Sub	1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar
1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub

LENGTH: 158.63 m WT. BELOW JARS: 11000 daN JAR HRS: 15.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1245.2

WT. ON BIT: 18000 daN ROTARY RPM: 55/58 STRING WT.: 73000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O.	REMARKS R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305		61	1.0	61.75		18-18	50								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pf	°C IN/OUT
63	1210/1210	10.0	10.5	1.5	12/ 22.0	17./24.	131.00		0.025	32			1100	120	0.2	1.3	39/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11300	35.1	63.2	97.0	235.13

SURVEYS

	AZIMUTH
5.70° @ 1347.00 m	67.00
5.40° @ 1357.00 m	66.00
5.40° @ 1367.00 m	66.00
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	2
Chemcide	1
Barite	
Potassium	18
Sulph-acid	
Sod-Sulph	2
Lime	1
Corinox	2
Envirofloc	
Gypsum	

MUD COMMENTS: K+ Ion 22,000, Polymers 2, Sulfite 300,

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.08 @ 00:00 Hours:
Drilled 311mm hole from 1346-1352mKB. Surveyed at 1347mKB.
Rig serviced. Functioned annular, closed in 19 seconds.
Drilled 311mm hole from 1352-1362mKB. Surveyed at 1357mKB.
Rig serviced. Functioned top pipe rams, closed in 8 seconds.
Drilled from 1362-1366mKB, with 18,000 daN, RPM 55-58, to 24:00 hours 1999.06.08.

Note #1: Total hours on bit #10RR at 08:00 hours 1999.06.09 are 97.25.
#2: Besa River Shale top at 1368mKB at 01:45 hours 1999.06.09.
#3: Currently drilling 1.6-2.5m/hour.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/08
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 79
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863	
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.	
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.	
		WELL STATUS:	
WEATHER: Overcast	TEMP: 5 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1346.00 m	PROGRESS: 22.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1353.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 41340 CUMULATIVE COST: $ 8473296

BHA

1	Bit	1	Dog Sub	1	Bit Sub	2	Monel+Sht DC	1	Shock Sub
1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub	9	Heavy weight

LENGTH: 240.57 m WT. BELOW JARS: 11000 daN JAR HRS: 15.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1222.2

WT. ON BIT: 18000 daN ROTARY RPM: 55/65 STRING WT.: 72000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305		41	1.1	38.75		18-18	50								
										0				-									
										0				-									

LAST PIPE TALLY: 1083.30 BOARD: 1083.93 CORRECTION: YES [ ] NO [x]

MUD

Visc sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
54	1210/1210	10.1	10.1	1.5	12/ 15.0	14./18.	128.00		0.025	25			1000	100	0.3	1.3	36/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
3 HR IN	1210 kg/m3	OUT	1090 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11200	35.1	63.2	97.0	235.13

SURVEYS

		AZIMUTH
5.60 °	@ 1329.00 m	63.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	4
Chemcide	1
Barite	37
Potassium	36
Sulph-acid	
Sod-Sulph	3
Lime	1
Corinox	2
Envirofloc	2
Gypsum	

MUD COMMENTS: K+ Ion 22,000, Polymers 1.7, Sulite 300

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.07 @ 00:00 Hours:
Drilled 311mm hole from 1324-1334mKB. Surveyed at 1329mKB. Misrun. Could not read Azimuth. Rig Serviced. Functioned bottom pipe ram, closed in 8 seconds. Resurveyed at 1329mKB. Drilled 311mm hole with 18,000 daN, RPM 55-65 to 1346mKB at 24:00 hours 1999.06.07.

Note #1: Wadeco light plant is down, running 1 centrifuge from rig power.

#2: Road bans being lifted in NWT 1999.06.10, will make barge run with Cooper Barging 1999.06.11 at 08:00 hours and haul out all equipment from 660mm and 444.5mm hole sections.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/07
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 78
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast	TEMP: 2 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1324.00 m	PROGRESS: 19.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1333.00 m	8:00 a.m. OPERATION: Drilling 311mm hole with pendulum assembly.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 38033 CUMULATIVE COST: $ 8431956

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Ml DC(ShtDC)	1	Shock Sub
1	3PT Reamer Q	1	Drill Collar	1	3PT Reamer Q	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	Xo sub	9	Heavy weight

LENGTH: 237.88 m WT. BELOW JARS: 11000 daN JAR HRS: 15.5 JAR SERIAL #: 10156

TOTAL ROTATING HOURS: 1199.0

WT. ON BIT: 18000 daN ROTARY RPM: 55/65 STRING WT.: 71000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
9	311.0	REED	BW1535	EHP53A	14.3	14.3	14.3	1258	1305	47	1.7	27.75		20-21	50	1	2	NO	A	E	I	NO	BHA
10RR	311.0	REED	BW1535	EHP53A	12.7	12.7	12.7	1305		19	1.2	15.50		17-18	65								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
54	1210/1205	10.5	11.0	1.5	12/ 16.5	17./23.	128.00		0.027	25			1100	120	0.2	1.1	36/
	/				/	/											/

CENTRIFUGE	DEGILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN 1230 kg/m3 OUT 1210 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	70	0.97	Emsco	152	254	70	0.97	9200	30.7	55.2	84.7	156.65

SURVEYS

	AZIMUTH
6.00 ° @ 1319.00 m	63.00
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	15.50	BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.25	TRIPPING	4.75
SURVEYING	0.25	SLIP & CUT	0.75
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Alcomer110	
Starpak	
Chemcide	1
Barite	
Potassium	
Sulph-acid	
Sod-Sulph	2
Lime	1
Corinox	1
Enviroflоc	
Gypsum	6

MUD COMMENTS: k+ ion 21,000 Polymer 1.4, Sulfite 300,

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Reported below.)

1999.06.06 @ 00:00 Hours:
Tripped out hole. Changed out bottom hole assembly. Rig serviced. Functioned top pipe rams, closed in 6 seconds. Ran in hole to 765mKB. Slipped and cut drilling line. Ran in hole to 1295mKB. Circulated clean to 1305mKB. Drilled 311mm hole from 1305-1324mKB. Surveyed at 1319mKB. Rig serviced. Functioned top pipe rams, closed in 6 seconds. Drilled 311mm hole with 18,000 daN, RPM 60-65 at 1324mKB at 24:00 hours 1999.06.06.

Note: Changed BHA to 14 metre pendulum hook up to decrease angle to +/- 3 degrees.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/06/06
DAY: 77
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 3 °C
Midnight DEPTH: 1305.00 m PROGRESS: 22.00 m
8:00 a.m. DEPTH: 1305.00 m 8:00 a.m. OPERATION: Running in hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 41341 CUMULATIVE COST: $ 8393923

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Monel Dc
1	Drill Collar	1	3PT Reamer Q	1	Shock Sub	2	Drill Collar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	X/O

1	3PT Reamer Q	1	3PT Reamer Q
1	Drilling Jar	1	Drilling Jar
9	Heavy Weight		

LENGTH: 237.40 m WT. BELOW JARS: 11000 daN JAR HRS: 523.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1183.5

WT. ON BIT: 21000 daN ROTARY RPM: 50/52 STRING WT.: 70000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
9	311.0	REED	BW1535	EHP53A	14.3	14.3	14.3	1258		47	1.7	27.75		20-21	50								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	O/L %	Cl ppm	Ca ppm	ALKALINITY MFL	ALKALINITY MFO	°C IN/OUT
56	1235/1235	10.5	10.5	1.5	13/ 16.5	12./21.	146.00		0.052	22			1100	140	0.3	1.2	38/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	ANNULAR VELOCITY DC m/MIN	JET VELOCITY m/sec	JET HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	9200	35.1	63.2	76.5	149.30

SURVEYS

			AZIMUTH
5.80	@	1277.00 m	56.00
5.80	@	1297.00 m	61.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	13.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	1.75	TRIPPING	7.50
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	
Alcomer110	
Starpak	
Chemcide	
Barite	70
Potassium	28
Sulph-acid	
Sod-Sulph	3
Lime	
Corinox	2
Enviroflo	1
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.05 00:00 Hrs: Circulated. Pumped pill. Tripped out. Survey barrel unable to reach monel collar. Corrosion ring jammed in XO sub. Cleaned plastic coating from corrosion ring which was stuck in bit jets. Rig serviced. Functioned blind ram, closed in 6 seconds. Ran in hole to 1263mKB. Cleaned from 1263-1283mKB. Drilled 311mm hole to 1284mKB. Surveyed@1277mKB Drilled from 1284-1302mKB, 21,000daN, 50-52RPM. Surveyed@1297m KB. Functioned remote choke. Drilled from 1302-1305mKB. Circulated sample. Pumped pill. Tripped out to change bottom hole assembly to a longer pendulum to drop angle in hole. Tripped out to 24:00 hours 1999.06.05.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/06/05
DAY: 76
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Fog, Light rain TEMP: 5 °C
Midnight DEPTH: 1283.00 m PROGRESS: 25.00 m
8:00 a.m. DEPTH: 1283.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Running in hole with bit after unplugging jets.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 62580 CUMULATIVE COST: $ 8352582

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Monel Dc	1	3PT Reamer Q
1	Drill Collar	1	3PT Reamer Q	1	Shock Sub	2	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	X/O	9	Heavy Weight

LENGTH: 237.40 m WT. BELOW JARS: 11000 daN JAR HRS: 523.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1169.8

WT. ON BIT: 21000 daN ROTARY RPM: 50/52 STRING WT.: 69000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RND	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
8	311.0	HW	C44DP	GTM28	12.7	12.7	12.7	1146	1258	112	1.4	80.25		18-24	50	2	6	BT	H	3	1	CT	PR
9	311.0	REED	BW1535	EHP53A	14.3	14.3	14.3	1258		25	1.8	14.00		23-21	50								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	F.C. mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MPF	MFO	°C IN/OUT
56	1230/1230	10.5	9.5	1.5	12/ 17.0	12./22.	143.00		0.053	25			1100	160	0.3	1.4	37/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	9100	35.1	63.2	76.5	148.70

SURVEYS

			AZIMUTH
5.80	@	1267.00 m	57.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	14.00	BOP DRILL	
HNDL TOOLS	1.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.25
COND MUD		TRIPPING	6.75
SURVEYING	1.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Alcomer110	1
Starpak	
Chemcide	1
Barite	
Potassium	28
Sulph-acid	
Sod-Sulph	3
Lime	2
Corinox	2
Enviroflo	
Gypsum	2

MUD COMMENTS: K +ion 20000, Polymer 1.8 Sulfite 220,

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.04 @ 00:00 Hours: Surveyed at 1247mKB. Pumped pill. Tripped bit #8. Hole good. Turned reamer pins. Rig serviced. Functioned blind rams, closed in 6 seconds. Ran in hole to 1234mKB. Washed to bottom, 1234-1258mKB. Drilled from 1258-1263mKB with 23,000 daN, RPM 50. Rig serviced. Functioned top pipe rams, closed in 8 seconds. Drilled from 1263-1270 mKB. Surveyed at 1267mKB. Drilled from 1270-1282mKB with 21,000 daN, 55 RPM. Surveyed at 1277mKB. Misrun survey, survey barrel did not get into the monel drill collar, it hung up in the BHA. Drilled from 1282-1283mKB. Surveyed to 24:00 hours 1999.06.04.

Note:Bit,dogsub,and reamers 1mm undergauge.Reran all but bit

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/04
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 75
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 7 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1258.00 m	PROGRESS: 35.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1258.00 m	8:00 a.m. OPERATION: Running in with bit #9.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42604 CUMULATIVE COST: $ 8290002

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Short DC
1	Monel DC	1	3PT Reamer Q	1	Shock Sub	3	Drill Collar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	X/O

1	3PT Reamer Q		
1	Drilling Jar		
9	H.W		

LENGTH: 240.09 m WT. BELOW JARS: 11000 daN JAR HRS: 509.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1155.8

WT. ON BIT: 24000 daN ROTARY RPM: 50/52 STRING WT.: 69000 daN

DRILL PIPE O.D.: 127 THREAD: S" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RWD	BIT WTdaN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	REMARKS O	R
8	311.0	HW	C44DP	GTM28	12.7	12.7	12.7	1146	1258	112	1.4	80.25		18-22	50								
9	311.1	REED		HP53A	12.7	12.7	12.7	1258		0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
54	1225/1225	10.0	11.0	1.5	12/ 17.0	14./20.	140.00		0.055	25			1100	200	0.4	1.4	39/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
4 HR IN	1180 kg/m3	OUT	1080 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11250	35.1	63.2	97.0	238.04

SURVEYS

			AZIMUTH
5.80 °	@	1234.00 m	56.00
5.40 °	@	1247.00 m	59.00
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	22.50	BOP DRILL	0.50
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	2
Chemcide	
Barite	35
Potassium	56
Sulph-acid	
Sod-Sulph	6
Lime	3
Corinox	4
Envirofloc	
Gypsum	

MUD COMMENTS: K+Lon 20,000, Sulfite 180, Polymer 2.5 kg/m3,

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.03 @ 00:00 Hours:
Drilled 311mm hole from 1223-1227mKB with 21,000 daN. Surveyed at 1218mKB. Rig serviced. Functioned annular, closed in 18 seconds. Drilled 311mm hole from 1227-1245mKB with 24,000 daN, RPM 52. Held BOP drill. Well secured in 80 seconds. Surveyed at 1234mKB. Rig serviced. Functioned annular, closed in 19 seconds. Drilled 311mm hole from 1245-1251mKB. Held BOP drill. Well secured in 60 seconds. Drilled 311mm hole from 1251-1258mKB with 22,000 daN, RPM 52 to 24:00 hours 1999.06.03.
Note #1: Lithology: 95% dirty limestone with traces of chert, 5% shale.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/04
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 75 DEPTH: 1258.00 m PROGRESS: 35.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 7 °C
8:00 a.m. OPERATION: Running in with bit #9.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #2: Hole in good condition on trip out.
Note #3: Changed BHA to longer pendulum to continue angle drop to target.

REPORTED BY: B. Shudra/D. Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/06/03
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 74
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Cloudly	TEMP: 4 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1223.00 m	PROGRESS: 32.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1233.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.		

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 55709 **CUMULATIVE COST:** $ 8247398

BHA

1 Bit	1 Dog Sub	1 Bit Sub	1 Short DC	1 3PT Reamer Q
1 Monel DC	1 3PT Reamer Q	1 Shock Sub	3 Drill Collar	1 Drilling Jar
5 Drill Collar	1 XO Sub	6 Drill Collar	1 X/O	9 H.W

LENGTH: 240.09 m WT. BELOW JARS: 11000 daN JAR HRS: 485.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1133.3

WT. ON BIT: 21000 daN ROTARY RPM: 50/52 STRING WT.: 69000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm. 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
8	311.0	HW	C44DP	GTM28	12.7	12.7	12.7	1146		77	1.3	57.75		18-21	50								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
56	1220/1220	10.5	9.5	1.5	11/ 17.5	11./21.	146.00		0.050	36			1200	200	0.3	1.2	38/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11000	35.1	63.2	97.0	237.07

SURVEYS

			AZIMUTH
5.90 °	@	1198.00 m	57.00
5.70 °	@	1218.00 m	53.00
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	23.50	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Alcomer110	1
Starpak	2
Chemcide	1
Barite	
Potassium	84
Sulph-acid	
Sod-Sulph	6
Lime	
Corinox	4
Envirofloc	2
Gypsum	3

MUD COMMENTS: K+Ion 20,000 Polymer 2, Sulfite 120

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.06.02 @ 00:00 Hours:
Drilled 311mm hole from 1191-1207mKB. Surveyed at 1198mKB.
Rig serviced. Drilled from 1207-1223mKB to 24:00 hours 9.06.02.
Note #1: 1191-1207mKB, 18,000 daN WOB, RPM 52.
1207-1213mKB, 20,000 daN WOB, RPM 52.
1213-1223mKB, 21,000 daN WOB, RPM 52.
Note #2: Lithology: 1991-1210mKB, 5% chert, limestone, siltstone, shale. 1210-1223mKB, 25% chert, shale, limestone, siltstone.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/06/02
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 73
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: 6 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 1191.00 m | PROGRESS: 31.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 1203.00 m | 8:00 a.m. OPERATION: Drilling 311mm hole. 8 hour average: 1.5m/hour.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 52933 | CUMULATIVE COST: $ 8191689

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Short DC	1	3PT Reamer Q
1	Monel DC	1	3PT Reamer Q	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	X/O	9	H.W

LENGTH: 240.09 m | WT. BELOW JARS: 15000 daN | JAR HRS: 461.0 | JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1109.8

WT. ON BIT: 20000 daN | ROTARY RPM: 50/52 | STRING WT.: 69000 daN
DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	METRES	METRES PER HOUR	HOURS ON BIT DAY	HOURS ON BIT RMD.	BIT WT daN	BIT RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
8	311.0	HW	C44DP	GTM28	12.7	12.7	12.7	1146		45	1.3	34.25		15-20	50								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 | BOARD: 185 | CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Oil % kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl- ppm	Ca++ ppm	ALKALINITY MF	MFO	°C IN/OUT
54	1215/1220	10.5	10.0	1.5	11/ 18.0	7.0/11.	135.00		0.010	28			1200	240	0.3	0.7	34/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	236.69

SURVEYS

		AZIMUTH
6.10°	@ 1160.00 m	51.00
6.00°	@ 1169.00 m	56.00
5.80°	@ 1179.00 m	55.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		SLIP & CUT	
RUN CSG	0.75	CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	2
Alcomer110	
Starpak	4
Chemcide	1
Barite	
Potassium	84
Sulph-acid	
Sod-Sulph	8
Lime	3
Corinox	4
Enviroflo	
Caustic	

MUD COMMENTS: K+Ion 23200, Polymer 2.4 kg/m3, Sulfite 128

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted Below.)

1999.06.01 @ 00:00 Hours:
Drilled 311mm hole, with surveys as required, to 1191mKB at 24:00 hours 1999.06.01.
Note #1: 1146mKB to 1170mKB, WT. 15-16000 daN, RPM 52
1170mKB to 1179mKB, WT. 17-18000 daN, RPM 52
1179mKB to 1191mKB, WT. 19-20000 daN, RPM 52
Note #2: Lithology: 1160mKB to 1180mKB, Chert 25%, Dolomite, Limestone. 1180mKB to 1191mKB, Chert 2%, Limestone, Siltstone, Shale.
Note #3: Had to limit RPM due to chert content to save bit.
Note #4: Deviation responding to 5m pendulum hook up.

SUPERVISOR: B. Shudra/J. Brazel | PHONE #: (600) 700-2629 | CALLING CARD #: 454-037-6130-5210

CD 96/11

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/06/01
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 72
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1160.00 m	PROGRESS: 18.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1169.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 65248 CUMULATIVE COST: $ 8138756

BHA

1	Bit	1	Dog Sub	1	Bit Sub	1	Short DC
1	Monel DC	1	3PT Reamer Q	1	Shock Sub	3	Drill Collar
5	Drill Collar	1	XO Sub	6	Drill Collar	1	X/O
1	3PT Reamer Q						
1	Drilling Jar						
9	H.W						

LENGTH: 240.09 m WT. BELOW JARS: 15000 daN JAR HRS: 461.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1087.1

WT. ON BIT: 16000 daN ROTARY RPM: 50/52 STRING WT.: 68000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
7	311.0	Reed	MM9038	HP63	12.7	12.7	12.7	1057	1146	89	1.5	59.25		16-17	72	2	2	FC	A	E	I	FC	BHA
8	311.0	HW	C44DP	GTM28	12.7	12.7	12.7	1146		14	1.2	11.50		15-16	50								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mfi	Mfo	°C IN/OUT
50	1200/1200	10.5	10.3	1.5	9/ 15.0	6.0/8.0	130.00		0.010	23			1000	320	0.3	0.7	34/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	233.19

SURVEYS

		AZIMUTH
6.30°	@ 1151.00 m	55.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	14.50	BOP DRILL	
HNDL TOOLS	1.75	SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	6.75
SURVEYING	0.25	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	1
Alcomer110	
Starpak	2
Chemcide	
Barite	111
Potassium	56
Sulph-acid	
Sod-Sulph	3
Lignite	
Corinox	2
Envirofloc	1
Caustic	

MUD COMMENTS: K+Ion 22000, Polymer 2.6 kg/m3, Sulfite 160

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.31 @ 00:00 Hours:

Flow checked well 15 stands off bottom. Well was static for 18 minutes and then began to flow. Flowed 0.10m3. Tripped back to bottom. 0.50m3 influx (water). Drilled 311mm hole to 1146mKB. Increased density to 1220 kg/m3. Hoisted to change bit and BHA. Made up new bit and BHA. Tripped in hole. Washed 15m to bottom. No fill. Drilled 311mm hole, surveying as required, to 1160mKB at 24:00 hours 1999.05.31.

Note #1: Drilled with 15000-16000 daN, 52 RPM, to control deviation from 1146mKB to 1160mKB.

Note #2: Very erratic torque from 1151mKB to 1160mKB. Formation streaked with limestone, dolomite and

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2529 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/06/01
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 72 DEPTH: 1160.00 m PROGRESS: 18.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

chert to 25%.
Note #3: Had to keep RPM low to not break outside row of inserts off cones.
Note #4: Penetration rate varied widely from 10 metres per hour to 1 metre per hour.

REPORTED BY: B. Shudra/J. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 86/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/31
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 71
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1142.00 m	PROGRESS: 28.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1146.46 m	8:00 a.m. OPERATION: Tripping for bit and to change BHA.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 59889 CUMULATIVE COST: $ 8073508

BHA

1	Bit	1	Dog Sub	1	NB Reamer N	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer Q	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.30 m WT. BELOW JARS: 15000 daN JAR HRS: 413.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1072.6

WT. ON BIT: 17000 daN ROTARY RPM: 70/72 STRING WT.: 68000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
7	311.0	Reed	MM9038	HP63	12.7	12.7	12.7	1057		85	1.5	56.25		16-17	72									
										0				-										
										0				-										

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
50	1200/1200	10.5	10.3	1.5	9/ 15.0	6.0/8.0	130.00		0.010	23			1000	320	0.3	0.7	34/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	233.19

SURVEYS

		AZIMUTH
6.40°	@ 1122.00 m	51.00
6.30°	@ 1131.00 m	49.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.25	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.50	TRIPPING	0.25
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Alcomer110	1
Starpak	2
Chemcide	2
Lime	
Potassium	112
Sulph-acid	
Sod-Sulph	7
Lignite	
Corinox	5
Enviroflo	
Caustic	

MUD COMMENTS: K+Ion, 23000, Polymer 2.4 kg/m3, Sulfite 180

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.30 @ 00:00 Hours:

Drilled 311mm hole, with surveys as required, from 1114mKB to 1142mKB. Circulated bottom hole sample. Hoisted to change bit and BHA to 24:00 hours 1999.05.30.

Note #1: Drilled with 16000-17000 daN to control deviation, RPM 72 from 1114mKB to 1142mKB.

Note #2: New BHA: Bit, dog sub, bit sub, short drill collar, 3 pt roller reamer, nonmagnetic drill collar, 3 pt roller reamer, shock sub, 3-228mm drill collars, jars, 5-228mm drill collars, XO, 6-178mm drill collars, XO, 9 HWDP.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/05/31
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 71 DEPTH: 1142.00 m PROGRESS: 28.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: 5 °C
8:00 a.m. OPERATION: Tripping for bit and to change BHA.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #3: New BHA is a slight pendulum with +/- 5m bit to 3 pt. slight dropping assembly.

REPORTED BY: B. Shudra/J. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/30
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 70
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 2 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 1114.00 m	PROGRESS: 38.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 1125.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 61297 CUMULATIVE COST: $ 8013619

BHA

1 Bit	1 Dog Sub	1 NB Reamer N	1 IBS	1 Short DC			
1 IBS	1 Monel DC	1 3PT Reamer Q	1 Shock Sub	3 Drill Collar			
1 Drilling Jar	5 Drill Collar	1 XO Sub	6 Drill Collar	10 1 XO +9 HUDP			

LENGTH: 242.30 m WT. BELOW JARS: 15000 daN JAR HRS: 413.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1050.4

WT. ON BIT: 17000 daN ROTARY RPM: 70/72 STRING WT.: 68000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT/daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
7	311.0	Reed	HM9038	HP63	12.7	12.7	12.7	1057		57	1.7	34.00		19-20	40								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30mins	FC mm	PV/YP	GELS 0/10	Tmp. Sat. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
51	1200/1210	10.2	10.2	1.5	10/ 15.0	6.5/10.	130.00		0.007	25			1100	400	0.2	0.6	33/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	NHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	234.16

SURVEYS

		AZIMUTH
6.10 °	@ 1084.00 m	51.00
6.20 °	@ 1103.00 m	49.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Gypsum	1
Starpak	2
Chemicide	
Lime	2
Potassium	84
Sulph-acid	
Sod-Sulph	4
Lignite	
Carinox	4
Envirofloc	1
Caustic	1

MUD COMMENTS: K+Ion - 22500, Polymer - 1.7kg/m3, Sulfite - 120.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.29 @ 00:00 hours.
Drilled 311mm hole to 1114mKB, surveying as required to 24:00 hours, 1999.05.29.

Note: Fann 16,000 to 17,000 daN with RPM of 72 from 1094mKB to 1114mKB to control deviation.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 88/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/05/29
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 69
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: -1 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 1076.00 m PROGRESS: 23.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 1091.00 m 8:00 a.m. OPERATION: Drilling 311 mm hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 68127 CUMULATIVE COST: $ 7952322

BHA

1	Bit	1	Dog Sub	1	NB Reamer N	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer Q	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.30 m WT. BELOW JARS: 15000 daN JAR HRS: 389.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1027.4

WT. ON BIT: 20000 daN ROTARY RPM: 40/72 STRING WT.: 66000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	DWD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
6	311.0	Smith	LR2975	F57	12.7	12.7	12.7	992	1057	65	1.4	46.75		19-20	35	8	6	BT	M	E	3	FC	PR
7	311.0	Reed	HM9038	HP63	12.7	12.7	12.7	1057		19	1.3	14.75		19-20	40								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/1m	Tau 0 kg/m2	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpi	MFO	°C IN/OUT
54	1235/1210	10.5	10.9	1.5	13/ 16.0	7.0/13.	120.00		0.012	25			1000	380	0.3	0.8	33/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	RPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	RPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	237.65

SURVEYS

		AZIMUTH
5.40 °	@ 1044.00 m	54.00
5.80 °	@ 1064.00 m	50.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	14.75	BOP DRILL	
HNDL TOOLS	3.00	SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	4.50
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Barite	30
Starpak	2
Cheecide	1
Lime	1
Potassium	56
Sulph-acid	
Sod-Sulph	4
Lignite	2
Carinox	3
Envirofloc	
Caustic	1

MUD COMMENTS: K+Ion 23000, Polymer 2.3 Kg/m3, Sulfite 120.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.28 @ 00:00 Hours.
Drilled 311 mm hole to 1057.8 mKB. Surveyed as required. Tripped for bit #7 - HP63. Calipered downhole equipment as follows: Bit - 307mm, Dog Sub - 309mm, NB 3 pt. - 309mm, lower IBS - 305mm, middle IBS - 308mm, top 3 pt. - 309mm. Changed out undergauge down hole equipment. Ran in hole. Washed 15m to bottom. No fill. Drilled 311mm hole to 1076mKB and survey as required to 24:00 hours, 1999.05.28.
Note #1: All buttons broken off the outside rows on F57.
#2: Flett formation at 1056.5mKB, 1055.61mTVD.
#3: Held fire drill at camp with crews and camp personnel.

SUPERVISOR: B.Shudra J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 05/29

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/28
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 68
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast	TEMP: 3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 1053.00 m	PROGRESS: 29.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 1057.82 m	8:00 a.m. OPERATION: Tripping for bit.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 45418 CUMULATIVE COST: $ 7884195

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.06 m WT. BELOW JARS: 15000 daN JAR HRS: 341.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 1012.7

WT. ON BIT: 20000 daN ROTARY RPM: 35/38 STRING WT.: 66000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
6	311.0	Smith	LR2975	F57	12.7	12.7	12.7	992		61	1.4	43.00		19-20	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
53	1220/1220	10.5	10.5	1.5	12/ 16.0	7.0/10.	135.00		0.008	25			1000	400	0.3	1.0	34/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	237.07

SURVEYS

		AZIMUTH
5.10°	@ 1016.00 m	53.00
5.10°	@ 1026.00 m	50.00
5.40°	@ 1040.00 m	54.00
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Defoam xl	1
Starpak	2
Chemcide	2
Lime	1
Potassium	56
Sulph-acid	
Sod-Sulph	5
Soda Ash	1
Corinox	4
Enviroflloc	
Alcomer110	1

MUD COMMENTS: K+Ion, 23000, Polymer 2.2 kg/m3, Sulfite 180

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.27 @ 00:00 Hours:

Drilled 311mm hole, with surveys as required, to 1053mKB

at 24:00 hours 1999.05.27.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/27
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 67
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear,	TEMP: 5 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 1024.00 m	PROGRESS: 32.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 1031.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 52868 CUMULATIVE COST: $ 7838777

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	XO Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.06 m WT. BELOW JARS: 15000 daN JAR HRS: 341.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 989.75

WT. ON BIT: 20000 daN ROTARY RPM: 35/38 STRING WT.: 64000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
5	311.0	Reed	DU2568	HP63	12.7	12.7	12.7	933	992	59	1.3	45.25		18-22	35	6	7	WT	A	E	7	RG	PR
6	311.0	Smith	LR2975	F57	12.7	12.7	12.7	992		32	1.6	20.00		19-20	35								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY tN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
52	1210/1210	10.3	10.8	1.5	10/ 16.0	7.0/9.0	130.00		5.000	25			1000	400	0.2	0.6	41/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10700	35.1	63.2	97.0	235.13

SURVEYS

		AZIMUTH
4.50 ° @	987.00 m	53.00
4.50 ° @	997.00 m	51.00
5.10 ° @	1016.00 m	53.00
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	

TIME BREAKDOWN

DRILLING	20.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	
COND MUD	0.25	TRIPPING	2.25
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Lignite	
Starpak	
Chemcide	
Lime	2
Potassium	55
Sulph-acid	
Sod-Sulph	5
Gypsum	
Corinox	4
Envirofloc	
Alcomer110	1

MUD COMMENTS: K+Ion, 21000, Polymer 2.1 kg/m3, Sulfite 160

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.26 @ 00:00 Hours:
Tripped in bit #6, F57. Washed 30m to bottom, no fill.
Drilled 311mm hole, surveying as required, to 1024mKB at 24:00 hours 1999.05.26.

Note #1: Held safety meeting and BOP drill with crew back from days off.

Note #2: Base of Mattson formation expected at 1050-1070mKB.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/05/26
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 66
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Windy, clear. TEMP: 7 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 992.00 m PROGRESS: 21.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 994.00 m 8:00 a.m. OPERATION: Drilling 311mm hole at 1m/hour.

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 78192 **CUMULATIVE COST:** $ 7785909

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	xo Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.40 m | WT. BELOW JARS: 15000 daN | JAR HRS: 317.0 | JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 969.75

WT. ON BIT: 22000 daN | ROTARY RPM: 35/38 | STRING WT.: 64000 daN

DRILL PIPE O.D.: 127 | THREAD: 5" XH | DRILL COLLARS O.D.: 228 | THREAD: H90 | NO. IN HOLE: 8
178 | H90 | 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RND	WT daN	RPM	1	O	D	L	B	G	O	R
4	311.0	RBI	BP487B	C45ALR	12.7	12.7	12.7	892	933	41	1.4	29.00		20-22	35	6	8	BT	H	E	8	FC	TQ
5	311.0	Reed	DU2568	HP63	12.7	12.7	12.7	933	992	59	1.3	45.25		18-22	35	6	7	WT	A	E	7	RG	PR
6	311.0	Smith	LR2975	F57	12.7	12.7	12.7	992		0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
52	1220/1210	10.3	11.1	1.5	10/ 16.0	7.0/10.	130.00		5.000	25		22500	1000	400	0.3	0.8	/
	/				/	/											/

CENTRIFUGE		DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
44 HR IN kg/m3	OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10900	35.1	63.2	97.0	236.10

SURVEYS

			AZIMUTH
4.30	@	978.00 m	40.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	18.50	BOP DRILL	
HNDL TOOLS	1.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.50
COND MUD		TRIPPING	3.25
SURVEYING	0.25	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	
Starpak	2
Chemcide	1
Lime	1
Potassium	55
Sulph-acid	
Sod-Sulph	6
Gypsum	2
Corinox	4
Enviroflo c	
Alcomer110	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.25 @ 00:00 Hours:

Drilled 311mm hole from 971-992mKB with rig services and surveys as required. Penetration rate slowed down. Pumped pill. Flow checked and pulled out for new bit. Checked stabilizers and 3 point reamers. Checked BOP bolts while out of hole. Tripped out to 24:00 hours 1999.05.25.

Note: Calipered downhole equipment as follows:
Dog sub-310mm, NB 3 pt.-310mm, lower IBS-311mm, middle IBS-311mm, top 3 pt.-305mm.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/05/25
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 65
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: 6.6 m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Shower TEMP: 8 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 971.00 m PROGRESS: 31.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 978.00 m 8:00 a.m. OPERATION: Drill 311mm hole at 1.2m/hour.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 44251 CUMULATIVE COST: $ 7707717

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	xo Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.40 m WT. BELOW JARS: 15000 daN JAR HRS: 298.5 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 951.25

WT. ON BIT: 21000 daN ROTARY RPM: 35/38 STRING WT.: 64000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
4	311.0	RBI	BP487B	C45ALR	12.7	12.7	12.7	892	933	41	1.4	29.00		20-22	35	6	8	BT	H	E	8	FC	TQ
5	311.0	Reed	DU256B	HP63	12.7	12.7	12.7	933		38	1.5	25.26		18-21	35								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [X]

MUD

Viscosity Smc/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
51	1220/1210	10.3	11.9	1.5	9/ 15.0	6.0/8.0	130.00		5.000	25		22500	900	400	0.2	0.6	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
6 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10600	35.1	63.2	97.0	236.10

SURVEYS

			AZIMUTH
3.70 °	@	939.00 m	57.00
3.70 °	@	958.00 m	57.00
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	22.00	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.25	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS	0.25	W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	2
Starpak	2
Chemcide	2
Lime	3
Potassium	96
Sulph-acid	
Sod-Sulph	8
Percol 728	
Corinox	4
Enviroflo c	
Alcomer110	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.24 @ 00:00 Hours:
Drilled 311mm hole with surveys, rig services and centrifuge repair from 940mKB to 971mKB at 24:00 hours 1999.05.24.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/24
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 64
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Cloudy	TEMP: 4 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 940.00 m	PROGRESS: 21.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 948.00 m	8:00 a.m. OPERATION: Drilling 311 mm hole at 1.1 m/hr.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 63164 **CUMULATIVE COST:** $ 7663466

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	3PT Reamer	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	xo Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 242.40 m WT. BELOW JARS: 15000 daN JAR HRS: 276.5 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 929.25

WT. ON BIT: 18000 daN ROTARY RPM: 35/38 STRING WT.: 63000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	O	REMARKS R
4	311.0	RBI	BP4878	C4SALR	12.7	12.7	12.7	892	933	41	1.4	29.00		20-22	35	6	8	BT	H	E	8	FC	TQ
5	311.0	Reed	DU2568	HP63	12.7	12.7	12.7	933		7	2.2	3.25		15-18	25								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
54	1230/1210	10.2	12.2	1.5	12/ 16.0	7.0/11.	135.00		2.500	25		20000	1000	400	0.2	0.6	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
7 HR. IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	82	1.13	Emsco	152	254	82	1.13	11300	35.7	64.4	98.7	250.12

SURVEYS

			AZIMUTH
3.80	@	919.00 m	53.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	14.50	BOP DRILL	
HNDL TOOLS	3.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.50
COND MUD		TRIPPING	4.50
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Lignite	2
Starpak	2
Chemcide	
Lime	4
Potassium	28
Sulph-acid	
Sod-Sulph	4
Percol 728	
Corinox	2
Enviroflo	
Barite	30

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.23 @ 00:00 hours. Drilled 311mm hole from 919-933mKB. Bit torqued up. Hoisted out bit #4. Made up new bit#5. Replaced one IBS with new IBS, replaced uppermost IBS with 3 point roller reamer. Ran in hole. Hole good on trip. Broke in bit. Drilled 311mm hole from 933-940mKB to 24:00 hours 1999.05.23

Note(1) OD's of BHA pulled: dog sub: 310mm, NBR: 310mm, bottom IBS: 311mm, middle IBS: 307mm, top IBS: 304mm

Note(2) Diesel fuel on hand: 459500 litres. Gas on hand: 114000 litres.

Note(3) Calculated fuel used in the last 23 days: 141,000 litres. Average daily fuel used: 6130 litres.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/23
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 63
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 4 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 919.00 m	PROGRESS: 27.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 926.00 m	8:00 a.m. OPERATION: Drill 311 mm hole at 1.4 m/hr.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 45242 CUMULATIVE COST: $ 7600302

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	IBS	1	Short DC
1	IBS	1	Monel DC	1	IBS	1	Shock Sub	3	Drill Collar
1	Drilling Jar	5	Drill Collar	1	xo Sub	6	Drill Collar	10	1 XO +9 HWDP

LENGTH: 241.61 m WT. BELOW JARS: 15000 daN JAR HRS: 263.2 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 916.00

WT. ON BIT: 22000 daN ROTARY RPM: 30/40 STRING WT.: 62000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMG	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2RR	311.0	HW	F998D	ATJ 33	11.9	11.9	11.9	756	840	84	1.6	52.50		12-20	30	7	8	BT	A	F	7	WT	PR
3	311.0	RBI	BP6171B	C4LRGS	12.7	12.7	12.7	840	892	52	1.2	41.75		16-22	30	6	8	BT	H	E	4	WT	TQ
4	311.0	RBI	BP487B	C45ALR	12.7	12.7	12.7	892		27	1.4	19.00		20-22	35								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
52	1230/1210	9.9	12.4	1.5	11/ 15.5	6.0/10.	135.00		2.500	25		22500	700	400	0.1	0.2	/
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
27 HR IN kg/m3 OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	80	1.11	Emsco	152	254	80	1.11	10800	35.1	63.2	97.0	237.07

SURVEYS

			AZIMUTH
3.30	@	890.00 m	57.00
3.30	@	900.00 m	56.00
3.70	@	910.00 m	60.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	19.00	BOP DRILL	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	1.75
SURVEYING	0.50	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Percol 787	1
Starpak	2
Chemcide	1
Lime	3
Potassium	64
Sulph-acid	
Sod-Sulph	3
Percol 728	1
Corinox	3
Enviroflo c	1
Gypsum	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.22 @ 00:00 hours. Made up new BHA. Ran in. Drilled 311 mm hole from 892 mKB, with surveys and rig services as required, to 919 mKB at 24:00 hours 1999.05.22.

Note(1) From 893-903mKB, WOB: 20 000 daN, RPM: 40.
From 903-919mKB, WOB: 22 000 daN, RPM: 40.

Note(2) The dogsub and all 3 point reamers pulled on the bit #3 run were in gauge.

Note(3) Hole in good condition while tripping and drilling.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/05/22
DAY: 62
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Showers TEMP: 0 °C
Midnight DEPTH: 892.00 m PROGRESS: 22.00 m
8:00 a.m. DEPTH: 894.00 m 8:00 a.m. OPERATION: Drill 311 mm hole at 1.1m/hr.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 60370 CUMULATIVE COST: $ 7555060

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	Short DC	1	3Pt Reamer
1	Monel DC	1	3Pt Reamer	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 241.55 m WT. BELOW JARS: 15000 daN JAR HRS: 244.2 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 897.00

WT. ON BIT: 18000 daN ROTARY RPM: 30/40 STRING WT.: 61000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
2RR	311.0	HW	F998D	ATJ 33	11.9	11.9	11.9	756	840	84	1.6	52.50		12-20	30	7	8	BT	A	F	7	WT	PR
3	311.0	RBI	BP6171B	C4LRGS	12.7	12.7	12.7	840	892	52	1.2	41.75		16-22	30	6	8	BT	H	E	4	WT	TQ
4	311.0	RBI	BP487B	C45ALR	12.7	12.7	12.7	892		0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	PV/YP	GELS C/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mfi	Mfo	pH IN/OUT
49	1225/1225	9.9	11.4	1.5	9/ 14.0	7.0/12.	130.00		2.500	24		22000	700	400	0.1	0.2	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
27 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10600	35.1	63.2	97.0	238.04

SURVEYS

			AZIMUTH
3.30 °	@	871.00 m	52.00
3.30 °	@	881.00 m	56.00
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	19.25	BOP DRILL	
HNDL TOOLS	0.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.75
COND MUD		TRIPPING	2.25
SURVEYING	0.75	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	2
Barite	18
Starpak	4
Chemcide	1
Lime	
Potassium	21
Sulph-acid	1
Sod-Sulph	2
Percol 728	1
Corinox	2
Enviroflo c	2
Gypsum	2

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.21 @ 00:00 hours. Drilled 311 mm hole from 870-892 mKB with surveys and rig services. Hoisted bit #3. Started to change BHA to 24:00 hours 1999.05.21.
New BHA:- C45ALRGSP bit, dog sub, 3 pt., IBS, short dc, IBS, monel, IBS, shock sub, 3-228 mm dc, jars, 5-228 dc, xo, 6-178 mm dc.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/01

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 61
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: 6.6 m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Cloudy	TEMP: 2 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 870.00 m	PROGRESS: 28.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 877.00 m	8:00 a.m. OPERATION: Drilling 311mm hole at 1m/hour.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 53058 CUMULATIVE COST: $ 7494690

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	Short DC	1	3Pt Reamer
1	Monel DC	1	3Pt Reamer	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 241.55 m WT. BELOW JARS: 15000 daN JAR HRS: 225.5 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 877.75

WT. ON BIT: 22000 daN ROTARY RPM: 30/40 STRING WT.: 61000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMO	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	REMARKS R
2RR	311.0	HW	F99B0	ATJ 33	11.9	11.9	11.9	756	840	84	1.6	52.50		12-20	30	7	8	BT	A	F	7	WT	PR
3	311.0	RBI	BP6171B	C4LRGS	12.7	12.7	12.7	840		30	1.3	22.25		17-22	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mfl	Mfo	°C IN/OUT
52	1230/1230	10.7	12.8	1.5	11/ 16.0	7.0/13.	135.00		2.500	28		18000	380	480	0.3	2.1	/
	/				/	/											/

CENTRIFUGE			DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
8 HR IN	kg/m3	OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11200	35.1	63.2	97.0	239.02

SURVEYS

			AZIMUTH
2.80	@	842.00 m	57.00
2.60	@	852.00 m	62.00
3.00	@	861.00 m	55.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	20.25	BOP DRILL	0.25
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Soda Ash	1
Starpak	2
Chemcide	1
Lime	3
Potassium	76
Bicarb	1
Sod-Sulph	2
Lignite	2
Corinox	2
Enviroflac	
Gypsum	

MUD COMMENTS: Process ditch water.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.20 @ 00:00 Hours:

Drilled 311mm hole from 842mKB, surveying as required, to 870mKB at 24:00 hours 1999.05.20.

Note #1: Held BOP drill with daylight crew.

Note #2: Installing Pason System at rig, replacing Datalog System.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/20
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 60
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Showers, fog.	TEMP: 3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 842.00 m	PROGRESS: 18.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 849.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 63943 **CUMULATIVE COST:** $ 7441632

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	Short DC	1	3Pt Reamer
1	Monel DC	1	3Pt Reamer	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 241.55 m WT. BELOW JARS: 15000 daN JAR HRS: 205.3 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 857.50

WT. ON BIT: 17000 daN ROTARY RPM: 30/40 STRING WT.: 61000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F998D	ATJ 33	11.9	11.9	11.9	736	756	20	1.5	13.75		10-12	30	2	2	NO	A	E	I	NO	BHA
2RR	311.0	HW	F998D	ATJ 33	11.9	11.9	11.9	756	840	84	1.6	52.50		12-20	30	7	8	BT	A	F	7	WT	PR
3	311.0	RBI	BP6171B	C4LRGS	12.7	12.7	12.7	840		2	1.0	2.00		5-17	30								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Pf	Mf	°C IN/OUT
45	1220/1220	10.4	13.1	1.5	10/ 13.0	6.0/12.				24		14000	380	400	0.1	0.2	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	12500	35.1	63.2	97.0	237.07

SURVEYS

			AZIMUTH
2.30	@	816.00 m	53.00
2.60	@	823.00 m	57.00
2.80	@	833.00 m	60.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	16.50	BOP DRILL	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.75	TRIPPING	4.25
SURVEYING	0.50	SLIP & CUT	0.75
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	1
Gel	33
Starpak	2
Chemcide	1
Lime	2
Potassium	20
Alkpam1003	1
Sod-Sulph	1
Barite	26
Corinox	1
Envirofloc	
Gypsum	4

MUD COMMENTS: Processed 20m3 ditch water.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.19 @ 00:00 Hours:

Drilled 311mm hole, with surveys as required, to 840mKB.
Tripped out bit #2. Checked reamers and dog sub, all okay.
Made up and ran in hole with bit #3 to surface casing.
Slipped and cut drilling line. Finished in hole. Reamed
to bottom. Drilled 311mm hole from 840-842mKB to 24:00 hours 1999.05.19.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: 6.6 m

DATE: 99/05/19
DAY: 59
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 2 °C
Midnight DEPTH: 824.00 m PROGRESS: 42.00 m
8:00 a.m. DEPTH: 834.00 m 8:00 a.m. OPERATION: Drilling 311mm hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 55861 CUMULATIVE COST: $ 7377689

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	Short DC	1	3Pt Reamer
1	Monel DC	1	3Pt Reamer	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 241.55 m WT. BELOW JARS: 15000 daN JAR HRS: 189.3 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 841.50

WT. ON BIT: 17000 daN ROTARY RPM: 30/40 STRING WT.: 60000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8
178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT ORIG.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	736	756	20	1.5	13.75		10-12	30	2	2	NO	A	E	I	NO	BHA
2RR	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	756		68	1.8	38.25		17-22	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS D/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
46	1200/1205	10.8	12.2	1.5	9/ 14.5	7.0/10.				23		15000	350	440	0.7	2.3	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
4 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	12100	35.1	63.2	110.4	303.26

SURVEYS

			AZIMUTH
1.80	@	777.00 m	47.00
2.10	@	788.00 m	53.00
2.30	@	797.00 m	56.00
2.40	@	806.00 m	55.00
2.30	@	816.00 m	53.00
°	@	m	
°	@	m	
°	@	m	
°	@	m	
°	@	m	

TIME BREAKDOWN

DRILLING	22.75	BOP DRILL	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	1.00	SLIP & CUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING			
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	3
Soda Ash	3
Starpak	3
Gel	49
Sulph-acid	1
Potassium	10
Alkpam1003	2
Sod-Sulph	1
Chemcide	1
Corinox	1
Envirofloc	1
Corinox	1

MUD COMMENTS: Processed 10m3 ditch and cellar water.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.18 @ 00:00 Hours:
Drilled 311mm hole, surveying as required, from 782-824mKB
at 24:00 hours 1999.05.18.

Note: No losses or gains in mud system in past 24 hour period.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/18
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 58
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: 1 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 782.00 m	PROGRESS: 26.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 794.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 48549 CUMULATIVE COST: $ 7321828

BHA

1	Bit	1	Dog Sub	1	NB Reamer	1	Short DC	1	3Pt Reamer
1	Monel DC	1	3Pt Reamer	1	Shock Sub	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 241.55 m WT. BELOW JARS: 10000 daN JAR HRS: 156.5 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 818.75

WT. ON BIT: 20000 daN ROTARY RPM: 30/40 STRING WT.: 60000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMO	BIT WT 1000N	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	736	756	20	1.5	13.75		10-12	30	2	2	NO	A	E	I	NO	BHA
2RR	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	756		26	1.7	15.50		12-20	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
45	1200/1205	11.2	22.0	1.5	8/ 14.0	6.0/9.0				23		15000	400	360	0.8	2.6	/
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
34 HR IN 1270 kg/m3 OUT 1000 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	12300	35.1	63.2	110.4	303.26

SURVEYS

			AZIMUTH
1.70	@	767.00 m	53.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	15.50	BOP DRILL	
HNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	0.25
COND MUD		TRIPPING	4.00
SURVEYING	0.25	SLIP & CUT	1.00
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
REAMING	1.25		
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	3
Soda Ash	1
Starpak	3
Alcomer110	2
Alkpam1103	3
Potassium	55
Alkpam1003	2
Sod-Sulph	2
Barite	
Corinox	1
Enviroflo	8
Gypsum	8

MUD COMMENTS: Stripping old mud in Zeta tank.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.17 @ 00:00 Hours:
Tripped bit #1. Flow checked as required. Function tested blind rams. Made up new BHA and monitored well for flow (static). Tripped in bit #2RR to 749mKB. Broke circulation. Circulated bottoms up. Slipped and cut drilling line. Reamed 311mm hole from 749-756mKB. Drilled 311mm hole and surveyed as required to 782mKB at 23:59 hours 1999.05.17.
Note #1: Hole fill: Actual: 7.7m3, Calculated: 7.6m3, Difference: .1m3.
#2: No indication of any fluid entry at 1200 kg/m3 density.
#3: 777mKB, 1.8 degrees, azimuth 47.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/17
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 57
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 756.00 m	PROGRESS: 11.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 758.00 m	8:00 a.m. OPERATION: Drilling 311mm hole.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 48914 **CUMULATIVE COST:** $ 7273279

BHA

1	Bit	1	Bit sub	1	Monel DC	3	Drill Collar	1	Drilling Jar
5	Drill Collar	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight
54	Drill Pipe								

LENGTH: 229.31 m WT. BELOW JARS: 10000 daN JAR HRS: 101.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 803.25

WT. ON BIT: 12000 daN ROTARY RPM: 30/40 STRING WT.: 59000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	736	756	20	1.5	13.75		10-12	30	2	2	NO	A	E	I	NO	BHA
2RR1	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	756		-756				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Dril. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
45	1200/1205	11.2			9/ 14.0	4.0/9.0				23		13000	400	360	0.6	2.7	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	10200	35.1	63.2	110.4	303.26

SURVEYS

			AZIMUTH
1.80	@	752.00 m	47.00
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	7.75	BOP DRILL	0.25
HNDL TOOLS		SAFETY MTG	
RIG SERV		CIRCULATE	1.00
COND MUD	10.75	TRIPPING	2.50
SURVEYING	0.25	DRLG OUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	
		S-IN/WELL	1.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Starpak	2
Alcomer110	1
Alkpam1103	
Potassium	51
Corinox	1
Scd-Sulph	2
Barite	222
Chemcide	1
Envirofloc	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.16 @ 00:00 Hours:

Drilled 311mm hole to 756mKB. Circulated hole clean. Surveyed at 752mKB, 1.8 degrees, azimuth 47. Tripped bit #1. Flow checked at 5, 10, and 15 stands. Well flowed. Returned to bottom. Shut well in. Annulus stabilized at 1000 kPa. Circulated hole. Increased viscosity and density with barite and barite recovery. Shut well in due to water influx affecting mud properties. Circulated mud tanks, increased viscosity and density to 1210 kg/m3. (Annulus pressure at 600-650 kPa.) Displaced hole to 1210 kg/m3 mud. Monitored well, static. Increased density in mud tanks to 1210 kg/m3. Circulated and conditioned mud. Flow checked

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/05/17
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 57 DEPTH: 756.00 m PROGRESS: 11.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -3 °C
8:00 a.m. OPERATION: Drilling 311mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

well, static. Pumped pill and tripped bit #1. Flow checked at 5, 10, 15 stands, HW DP, drill collars and out of hole. Tripped out to 24:00 hours 1999.05.16.

Note: Conducted BOP drill and discussion of kicks with Akita's night shift.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/87

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/16
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 56
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast	TEMP: 0 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 745.00 m	PROGRESS: 9.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 755.00 m	8:00 a.m. OPERATION: Drilling 311 mm hole.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 57727 **CUMULATIVE COST:** $ 7224365

BHA

1 Bit	1 Bit sub	1 Monel DC	3 Drill Collar	1 Drilling Jar
5 Drill Collar	1 xo Sub	6 Drill Collar	1 xo Sub	9 Heavy Weight
54 Drill Pipe				

LENGTH: 229.31 m WT. BELOW JARS: 10000 daN JAR HRS: 93.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 795.50

WT. ON BIT: 10000 daN ROTARY RPM: 30/40 STRING WT.: 58000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F998D	ATJ 33	11.9	11.9	11.9	736		9	1.5	6.00		8-10	30								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drl. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
37	1060/	12.0			/	/						15000	400	360			/
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
8 HR IN 1060 kg/m3 OUT 1030 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	9400	35.1	63.2	110.4	267.21

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	6.00	PRESS TEST	6.00
HNDL TOOLS		SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	1.50
COND MUD		TRIPPING	2.75
SURVEYING		DRLG OUT	3.50
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	1.00
		FLARE TNK	2.50
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	85
Kelzan	
Alcomer110	3
Alkpam1103	1
Potassium	212
Corinox	4
Sod-Sulph	4
Sulph-acid	
Chemcide	
Enviroflo	1
Gypsum	2

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.15 @ 00:00 hours. Tripped in with bit #1. Inspected BHA & top drive. Broke circulation at 718 mKB. Circulated air out of system. Pressure tested BOP equipment. Changed out top kill line check valve. Drilled out float collar and cement to 729 mKB. Circulated hole clean. Pressure tested bottom pipe rams and float collar. Circulated hole and rigged in flare tank. Held pre-drill out meeting with Akita personnel. Drilled cement and shoe @ 16:00 hours. Drilled 311 mm hole to 741 mKB. Circulated hole clean. Performed a formation integrity test and received a leak off gradient of 21.5 kPa/m. Pumping was stopped. Formation did not fracture. Drilled 311 mm hole to 745 mKB to 23:59 hours 1999.05.15.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/05/16
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 56 DEPTH: 745.00 m PROGRESS: 9.00 m CPA NO.: 300N616040123300

WEATHER: Overcast TEMP: 0 °C
8:00 a.m. OPERATION: Drilling 311 mm hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note:
#1. All BOP related equipment was pressure tested to 1,500 kPa low and 13,000 kPa high for 10 minutes each. Tests okay.
#2. Function tested accumulator and remote motor kills. Tests okay.
#3. Conducted BOP drill prior to drill out.
#4. Held fire drill in camp.

REPORTED BY: M.Rogerson D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/97

FORMATION PRESSURE TEST

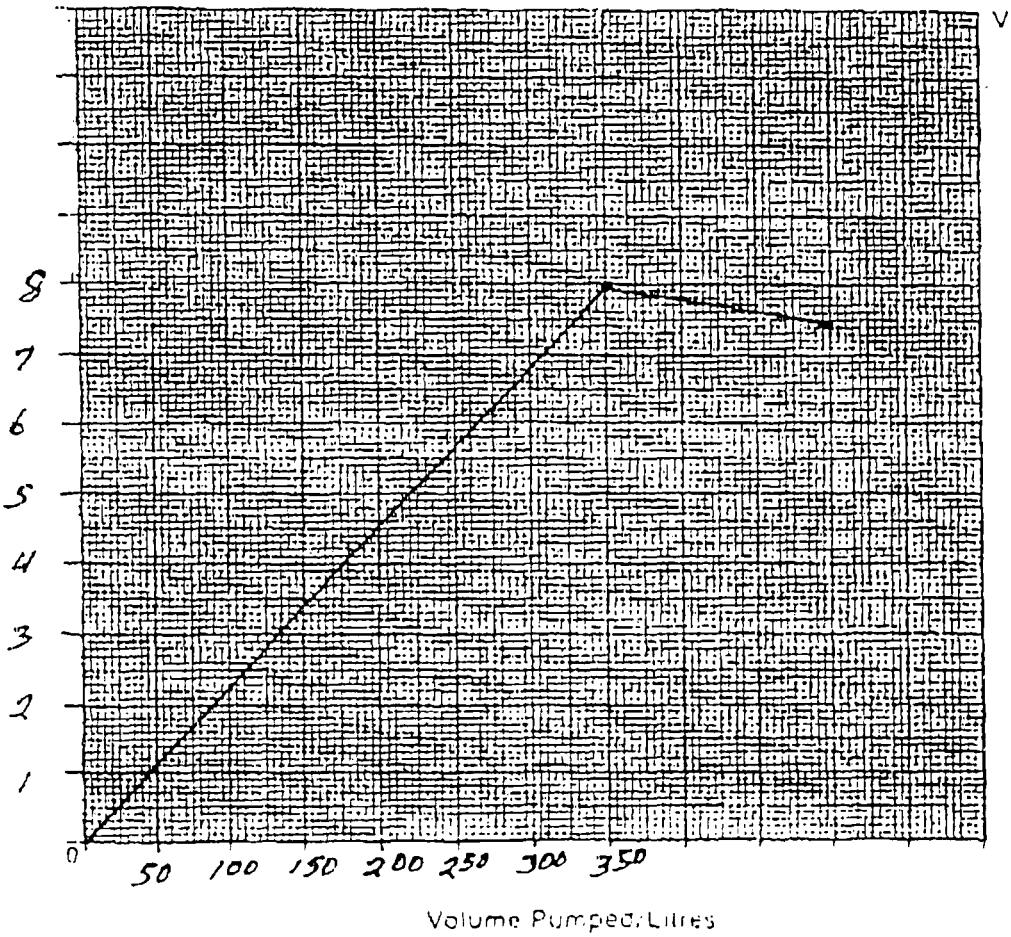
WELL: CANADIAN FOREST ETAL FLETT N-6 DATE: (y-m-d) 1999 - 5 - 15

MAXIMUM TEST PRESSURE -- LESSER OF

(1) B.O.P. Rating 35,000 kPa (1)

(2) Weakest Casing: 339.7 mm 101.2 kg/m K-55 Grade

Burst Rating (kPa) _____ x 0.75 = _____ kPa (2)



VOL PUMPED Litres	PRESSURE kPa
125	900
150	180
158	2500
170	3000
183	3900
200	4000
220	5000
238	5500
258	6000
275	6500
293	7000
308	7500
320	7000
340	7500
350	8000

Depth of casing	a)		735	m		
Mud gradient	b)	(mud density x 0.00981)	10.65	kPa/m	5. MIN	7500
Hydrostatic pressure	c)	(a x b)	7827.8	kPa	10. MIN	7400
Leak-off pressure	d)	(see note below)	8000	kPa	15-MIN	7300
Total pressure (at shoe)	e)	(c + d)	15827.8	kPa		
Formation gradient	f)	(e ÷ a)	21.5	kPa/m		
Maximum allowable mud density with no annulus pressure	g)	(f ÷ 0.00981)	2192	kg/m³		

NOTE: The last point ON the straight line plotted above is the leak-off pressure that you enter in line d)

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/15
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 55
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast	TEMP: 1.3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 736.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 736.00 m	8:00 a.m. OPERATION: Pressure testing with Inland Pressure Testers.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 62114 **CUMULATIVE COST:** $ 7166638

BHA

1	Bit	1	Bit sub	1	Monel DC	3	Drill Collar	1	Drilling Jar
5	Drill Collar Drill Pipe	1	xo Sub	6	Drill Collar	1	xo Sub	9	Heavy Weight

LENGTH: 229.31 m WT. BELOW JARS: 10000 daN JAR HRS: 87.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 789.50

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 228 THREAD: H90 NO. IN HOLE: 8

178 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
1	311.0	HW	F99BD	ATJ 33	11.9	11.9	11.9	736		-736				-									
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
29	1010/	10.0			/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254			Emsco	152	254				0.0	0.0	0.0	0.00

SURVEYS

		AZIMUTH
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	5.00	
HNDL TOOLS		SAFETY MTG		
RIG SERV		CIRCULATE		
COND MUD		TRIPPING	7.00	
SURVEYING		DRLG OUT		
RUN CSG		CEMENTING		
CLN TO BTM		W.O.C.		
REPAIRS		W.O.T.		
PU/LD PIPE		W/N.U. BOP	12.00	
CSG BOWL		CUT CSG		
		TOTAL HOURS:	24.00	

MUD ADDITIVES

Drispac	
Gel	40
Kelzan	
Desco	
Alkcam1103	
Soda Ash	2
Lignite	
Bicarb	
Sulph-acid	
Chemicide	
Enviroflo	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.14 @ 00:00 hours.

Nippled up 346 mm X 35 MPa nace trim BOP stack. Pressure tested blind rams and manifold with Inland Pressure Testers to 1,500 kPa low and 13,000 kPa high for ten minutes each. Tests okay. Made up BHA and bit #1. Inspected drill collars, hevi weight drill pipe and top drive with Satellite Drill Collar Inspection to 23:59 hours 1999.05.14. Inspection results: Cracked box XO to hevi Weight Drill Pipe 2 Hevi Weight DP cracked. 1 cracked box, 1 cracked pin. Vacuum truck twisted yoke off drive line. Mechanic flying in from Ft. Nelson at 10:30 hours today to repair the truck. Welder had to modify bottom kill line.

SUPERVISOR: M.Rogerson D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: m

DATE: 99/05/14
DAY: 54
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 1.5 °C
Midnight DEPTH: 736.00 m PROGRESS: 0.00 m
8:00 a.m. DEPTH: 736.00 m

FINAL TD: m FORMATION:
PBTD: m FORMATION:
8:00 a.m. OPERATION: Continue to nipple up/modify kill line sweep.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56416 CUMULATIVE COST: $ 7104524

BHA

LENGTH: 0.00 m WT. BELOW JARS: 32000 daN JAR HRS: 87.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 789.50

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. 1	O	D	L	B	G	REMARKS O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
62	1610/1610	10.0	8.8	2.5	32/ 9.0	4.0/21.	0.17		0.003	70			350	120	1.0	2.1	/ 26
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD PUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254			Emsco	152	254				0.0	0.0		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV		CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		DRLG OUT	
RUN CSG		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	14.50
CSG BOWL	9.50	CUT CSG	

TOTAL HOURS: 24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Alkpam1103	1
Soda Ash	
Lignite	
Bicarb	
Sulph-acid	1
Chemcide	
Enviroflo	3
Gypsum	6

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.13 @ 00:00 Hours:
Nippled down 762mm diverter. Rigged out catwalk and ramp. Laid down diverter and set on skid unit. Cut off conductor pipe and casing. Installed 339.7mm x 346mm 35 MPa weld on casing bowl complete with 2-52.4mm 35 MPa flanged gate valves. (SN 24200-01) Pressure tested bowl to 14,000 kPa for 20 minutes. (OK.) Nippled up 346mm x 35 MPa NACE trim BOP stack. Reinstalled catwalk and ramp. Dumped and cleaned mud tanks. Continued to nipple up BOP to 23:59 hours 1999.05.13.

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/13
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 53
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast, windy	TEMP: 7 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 736.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 736.00 m	8:00 a.m. OPERATION: Cut off 508mm casing flange/weld on bowl.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 127784 **CUMULATIVE COST:** $ 7048108

BHA

LENGTH: 0.00 m WT. BELOW JARS: 32000 daN JAR HRS: 87.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 789.50

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	REMARKS R
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
62	1610/1610	10.0	8.8	2.5	32/ 9.0	4.0/21.	0.17		0.003	70			350	120	1.0	2.1	/ 26
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254			Emsco	152	254			11200	0.0	0.0		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	2.50
COND MUD		TRIPPING	2.50
SURVEYING		DRLG OUT	
RUN CSG		CEMENTING	8.00
CLN TO BTM		W.O.C.	1.50
REPAIRS		W.O.T.	
PU/LD PIPE		W/N.U. BOP	5.50
CLN SUB	2.00	CUT CSG	1.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	6
Kelzan	
Desco	10
Alkpam1103	
Soda Ash	1
Lignite	1
Bicarb	6
Sulph-acid	8
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below)

1999.05.12 @ 00:00 Hours:
Pumped 10m3 visweep @ 1750 kg/m, pressure tested surface equipment to 15,000 kPa. Pumped 25.1 tonnes 0:1:0 "G" + .5% CFR + .25% LTR @ 1900 kg/m followed by 65 tonnes 0:1:0 "G" + .5% CFR + .25% LTR @ 2000 kg/m. Dropped plug and displaced drill pipe with 6.7m3 water. Bumped plug @ 3500 kPa over final circulating pressure float held. Plug down @ 00:37 hours. Received 9m3 good cement returns. Closed hydril and applied 200 kPa pressure on annulus. Displaced mud inside 339mm casing to stripped water. Washed up under substructure after displacement. Tripped out stinger pipe and stood in derrick. At 09:00 hours the hydril was opened and started

SUPERVISOR: M.Rogerson/D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/05/13
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 53 DEPTH: 736.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Overcast, windy TEMP: 7 °C
8:00 a.m. OPERATION: Cut off 508mm casing flange/weld on bowl.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

to nipple down 762mm diverter. At 10:45 hours the annulus started to flow. Sanjel were rigged in to get a flow rate. Well flowed .4m3/minute, shut valves on cementer and received a pressure from annulus of 1400 kPa. Pumped 3.2m3 water, slowly building pressure to 5000 kPa. Pressure slowly dropped and stabilized @ 1800 kPa with backflow decreasing from a small stream to a trickle. Bled off pressure, opened hydril. The well was static. Cut off 339mm casing beneath table so casing slips could be removed. Ran in 30m 1" stinger pipe and pumped 5 tonnes Quickset cement. Attempted to remove 1" stinger and pipe parted adjacent to hydril so bag could not be closed and pressure applied. WOC 1.5 hours and started to nipple down 762mm diverter stack to 23:59 hours 1999.05.12.

Note: Annulus between 508mm conductor and 339.7mm surface casing is cemented solid with no leaks.

REPORTED BY: M.Rogerson/D.Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra
PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

DATE: 99/05/11 RPT #: 2
AFE #: A983003 DFS:
CEMENT JOB ID (**): P
STRING IDENTIFIER (*): S

(*) STRING IDENTIFIERS
C = Conductor
S = Surface
I = Intermediate
P = Production
L = Liner
(**) JOB IDENTIFIERS
P = Primary S = Squeeze

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	/ :	/ :					
CIRCULATION	/ :	/ :					
CEMENTING – PREFLUSH	11 / 22 : 35	11 / 23 : 00	0.42	10.0	0.8	15000	
– SCAVENGER	/ :	/ :					
– FILL	11 / 23 : 02	11 / 23 : 24	0.37	19.1	0.8	8000	
– TAIL	11 / 23 : 24	12 / 00 : 21	0.95	44.4	0.8	4000	
– OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	/ :	12 / 00 : 21	0.35				
DISPLACEMENT	12 / 00 : 21	12 / 00 : 37	0.27	6.7	0.4	1000	
BUMP PLUG & BLEED OFF	/ :	12 / 00 : 37	0.62			12000	7500
CEMENT RETURNS	TYPE: Fill		VOLUME: 9.00 m3				
FLOAT HELD	YES [X]	NO [ ]					

STAGE TWO

A. Cement Blend Description

	CEMENT TYPE	ADDITIVES	PREFLUSH TYPE	PREFLUSH VOL (m3)
SCAVENGER				
FILL				
TAIL				
OTHER				

B. Cement Data

	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t)	MIX WATER TEMP (deg C)
SCAVENGER	–									
FILL	–									
TAIL	–									
OTHER	–									

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	/ :	/ :					
CIRCULATION	/ :	/ :					
CEMENTING – PREFLUSH	/ :	/ :					
– SCAVENGER	/ :	/ :					
– FILL	/ :	/ :					
– TAIL	/ :	/ :					
– OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	/ :	/ :					
DISPLACEMENT	/ :	/ :					
BUMP PLUG & BLEED OFF	/ :	/ :					
CEMENT RETURNS	TYPE:		VOLUME:	m3			
FLOAT HELD	YES [ ]	NO [ ]					

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME:	CDN FOREST ET AL FLETT N-61	DATE:	99/05/09
LOCATION:	300-N61-6040-12330-0	G.L. ELEVATION:	604.00 m
		K.B. ELEVATION:	610.70 m
SURFACE (X)	INTERMEDIATE ( ) PRODUCTION ( )	KB TO GROUND:	6.70 m

SIZE: 339.70 mm	WEIGHT: 101 kg/m	GRADE: K-55
MAKE: Tamsco	THREAD: BT&C	CONDITION: New

FLOAT/GUIDE SHOE - MAKE: Davis Float | FLOAT COLLAR - MAKE: Davis Tag in

HANGER - TYPE:

RAN: 58 jts. 339.70 mm OD CASING SET @ 735.55 m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)
Float shoe	0.53				
Tag in Collar	0.59				

CASING BOWL

SIZE:	340 x 346 mm
SERIAL #:	24200-01
TYPE:	Rector
API:	35000 kPa

CENTRALIZERS

NO.:	15
INTERVALS:	-
MAKE:	Import Tool
TYPE:	Bow spring

CASING HANGER

SIZE:	X mm
MAKE:	
TYPE:	
API:	kPa

SCRATCHERS

NO.:	
INTERVALS:	-
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM	mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN	m/rpm	STROKES/RPM	mins. WHILE CEMENTING

SURPLUS: 13 jts 339.7mm x 101.18mm K55 Angoma BT&C casing total 166.79m.

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

String weight-68,000 daN pump rate-2.2 m3/min, lowered yp to 9, tag-in cement job

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 DATE: 99/05/09

LOCATION: 300-N61-6040-12330-0

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

SIZE: 339.70mm WEIGHT: 101 kg/m THREAD: BT&C GRADE: K-55 MAKE: Tamsco

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
1	12.57		31	12.64		61	13.26	1	91			121		
2	12.80		32	13.35		62	12.42	1	92			122		
3	13.19		33	13.12		63	12.90	1	93			123		
4	13.33		34	12.44		64	12.58	1	94			124		
5	12.56		35	13.22		65	13.33	1	95			125		
6	12.95		36	12.90		66	12.87	1	96			126		
7	13.14		37	12.69		67	13.03	1	97			127		
8	13.04		38	12.72		68	13.09	1	98			128		
9	13.12		39	12.13		69	12.58	1	99			129		
10	13.12		40	12.00		70	12.72	1	100			130		
TOTAL	129.82		TOTAL	127.21		TOTAL	128.78		TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
11	12.59		41	12.72		71	12.72	1	101			131		
12	12.50		42	12.25		72			102			132		
13	12.79		43	12.60		73			103			133		
14	12.81		44	12.53		74			104			134		
15	12.51		45	13.19		75			105			135		
16	11.71		46	12.66		76			106			136		
17	12.43		47	12.80		77			107			137		
18	12.34		48	13.15		78			108			138		
19	12.69		49	11.44		79			109			139		
20	12.45		50	10.75		80			110			140		
TOTAL	124.82		TOTAL	124.09		TOTAL	12.72		TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
21	12.79		51	12.76		81			111			141		
22	12.66		52	12.81		82			112			142		
23	12.47		53	12.38		83			113			143		
24	12.78		54	12.50		84			114			144		
25	13.00		55	12.57		85			115			145		
26	12.96		56	12.51		86			116			146		
27	12.45		57	11.88		87			117			147		
28	13.01		58	12.70		88			118			148		
29	13.05		59	12.37	1	89			119			149		
30	13.21		60	12.92	1	90			120			150		
TOTAL	128.38		TOTAL	125.40		TOTAL			TOTAL			TOTAL		

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
1- 10	129.82	51- 60	125.40	101-110	
11- 20	124.82	61- 70	128.78	111-120	
21- 30	128.38	71- 80	12.72	121-130	
31- 40	127.21	81- 90		131-140	
41- 50	124.09	91-100		141-150	
				TOTAL	901.22

JTS.	LENGTH	
		Brought Forward
71	901.22	Page Total
71	901.22	Total on Location
13	166.79	Total Left Out (incl. LJ)
58	734.43	Total Perm. in Hole

REMARKS

CD 06/07 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/12
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N6160401233OO		DAY: 52
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast	TEMP: 4 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 736.00 m	PROGRESS: 0.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 736.00 m	8:00 a.m. OPERATION: Tearing out BOPs.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 190910 CUMULATIVE COST: $ 6920324

BHA

1 Tag in sub 9 Heavy Weight 66 Drill Pipe 3 Pup joints

LENGTH: 722.98 m WT. BELOW JARS: 32000 daN JAR HRS: 87.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 789.50

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
										0				–									
										0				–									
										0				–									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MUD	MFD	CHLORIDE IN/OUT
62	1610/1610	10.0	8.8	2.5	32/ 9.0	4.0/21.	0.17		0.003	70			350	120	1.0	2.1	/ 26
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11	11200	15.6	54.0		0.00

SURVEYS

	AZIMUTH	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
MNDL TOOLS	5.00	SAFETY MTG	0.50
RIG SERV	0.50	CIRCULATE	
COND MUD	5.75	TRIPPING	4.00
SURVEYING		DRLG OUT	
RUN CSG	6.75	CEMENTING	1.25
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE	0.25	Flow check	
W.N.U. BOP		CSG HOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	1
Desco	
Alkpam1103	7
Soda Ash	
Lignite	6
Barite	
Envirofloc	8
Chemcide	
Caustic	
Gypsum	5

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.05.11 @ 00:00 Hours:
Picked up 12 singles. Pulled out of hole. Rig serviced. Rigged to run casing. Held safety meeting prior to running casing. Ran 58 joints of 339.7mm, 101.2 kg/m, K-55, BT&C, Algoma casing with float shoe and tag in float collar. Total length, 735.55m. Circulated casing. Tore out power tong and lay down truck. Ran in with tag in sub. Tagged into float collar and circulated casing. Conditioned mud. Held safety meeting prior to cementing. Rigged to and started cementing 339.7mm casing to 24:00 hours 1999.05.11.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 01/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: m

DATE: 99/05/11
DAY: 51

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear TEMP: -2 °C
Midnight DEPTH: 736.00 m PROGRESS: 2.00 m
8:00 a.m. DEPTH: 736.00 m 8:00 a.m. OPERATION: Running 339.7mm casing.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 47165 CUMULATIVE COST: $ 6729414

BHA

1 Bit	1 Bit Sub	2 Drill Collar	1 3 Pt Reamer	1 Shock Sub			
4 Drill Collar	1 XO Sub	1 Drilling Jar	8 Drill Collar	1 XO Sub			
3 Drill Collar	1 XO Sub	9 Heavy Weight	51 Drill Pipe	Stick up			

LENGTH: 736.00 m WT. BELOW JARS: 32000 daN JAR HRS: 87.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 789.50

WT. ON BIT: 30000 daN ROTARY RPM: 30/40 STRING WT.: 73000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	METRES	MTRS PER HOUR	HOURS ON BIT DRL	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
9B	444.5	Smith	XC6176	3JS	28.0	28.0	28.0	727	736	9	0.8	11.25		28-32	30	2	2	FC	A	1	I	NO	TD
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	PH	WL cc/30min	FC m/m	PV/YP	GELS D/10	Tot. Sol kg/m3	Oil %	Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Pf	Cl ppm	Ca ppm	ALKALINITY Mf	Mpb	P.C IN/OUT
90	1620/1620	10.0	8.1	2.5	39/ 17.0	6.0/31.	0.18			0.004	80			350	100	1.0	2.3	/ 28
	/				/	/												/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/min	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/min	PRESSURE kPa	ANNULAR VELOCITY DP m/min	DC m/min	JET VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11200	19.4	67.1		0.00

SURVEYS

			AZIMUTH
0.60	@	193.00 m	43.00
1.10	@	300.00 m	48.00
2.00	@	395.00 m	36.00
2.20	@	501.00 m	37.00
2.00	@	597.00 m	49.00
2.00	@	701.00 m	41.00
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	3.00	PRESS TEST	
HNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	3.00
COND MUD		TRIPPING	7.75
SURVEYING	2.00	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE	6.50	Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	6
Kelzan	
Desco	
Alkpam1103	8
Soda Ash	
Lignite	
Barite	34
Envirofloc	7
Chemcide	
Caustic	
Gypsum	25

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.10 @ 00:00 Hours: Rig serviced. Surveyed at 732mKB, 1.7 degrees. Drilled 444.5mm hole from 734-736mKB. Total Depth for surface casing, reached at 03:30 hours 1999.05.10. Circulated and conditioned hole. Pumped pill. Wiper tripped. Laid down 381mm and 279mm drill collars, tongs, spider and slips for large collars. Picked up monel drill collar, bit sub and XO sub. Ran in hole. Surveyed every 100m. Circulated and conditioned hole. Tripped out to run 339.7mm casing. Picked up drill pipe for tag in cement job to 24:00 hours 1999.05.10.

Note #1: Mud temperature at return line is 28 degrees C.
#2: Hole in very good condition.

SUPERVISOR: B. Shudra/D. Bolberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/10
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 50
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:

WEATHER: Overcast, Light rain TEMP: 1 °C FINAL TD: m FORMATION:
Midnight DEPTH: 734.00 m PROGRESS: 9.00 m PBTD: m FORMATION:
8:00 a.m. DEPTH: 736.00 m 8:00 a.m. OPERATION: Wiper trip. Lay down 381mm and 280mm drill collars.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 76986 CUMULATIVE COST: $ 6682249

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	50	Drill Pipe		Stick up

LENGTH: 736.00 m WT. BELOW JARS: 32000 daN JAR HRS: 84.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 786.50

WT. ON BIT: 30000 daN ROTARY RPM: 30/40 STRING WT.: 73000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	BIT WT/1000	BIT RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
8BRR	444.5	RBI	PR263	C-5	0.0	0.0	0.0	722	727	5	0.3	18.75		29-30	30	5	6	FC	A	4	I	FC	PR
9B	444.5	Smith	XC6176	3JS	28.0	28.0	28.0	727		7	0.8	8.25		28-32	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY kg/m3 IN/OUT	pH	WL 30/30min	FC mm	Pm/Pf	CCLS %/%	Tot Sol kg/m3	Oil/Wat kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpf	Mmo	°C IN/OUT
87	1630/1630	10.0	8.3	2.5	42/ 17.5	6.0/32.	0.18		0.004	80			350	120	1.0	2.2	/ 39
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DECASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11500	19.4	67.1	24.8	25.76

SURVEYS

		AZIMUTH
1.70 °	@ 732.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	17.25	PRESS TEST	
HNDL TOOLS	0.50	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	5.75
SURVEYING		DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Alkpam1103	
Soda Ash	
Lignite	2
Barite	32
Envirofloc	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.05.09 @ 00:00 Hours:
Drilled 444.5mm hole from 725-727mKB. Rig serviced. Tripped out bit #8B, due to slow penetration rate. Changed bits. Rig serviced. Ran in hole. Flow check at heavy weight. Hole good on trip out and in. No fill. Drilled 444.5mm hole with 5000 to 10000 daN for 1m. Drilled 444.5mm hole with 28000 to 32000 daN at .90m/hour from 727-734mKB to 24:00 hours 1999.05.09.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling LTD.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: m

DATE: 99/05/09
DAY: 49
LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast, TEMP: -2 °C
Midnight DEPTH: 725.00 m PROGRESS: 5.00 m
8:00 a.m. DEPTH: 726.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 44391 CUMULATIVE COST: $ 6605263

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
6	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	49	Drill Pipe		Stick up

LENGTH: 725.00 m WT. BELOW JARS: 32000 daN JAR HRS: 67.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 769.25

WT. ON BIT: 28000 daN ROTARY RPM: 30/38 STRING WT.: 72000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32in. 1	2	3	DEPTH IN	OUT	METRES	METRES PER HOUR	HOURS ON BIT DRL	RMD	WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
7B	444.5	RBI	PR244	C-5	28.0	28.0	28.0	678	722	44	0.6	68.75		28-30	30	6	7	FC	A	8	I	BT	PR
8BRR	444.5	RBI	PR243	C-5	0.0	0.0	0.0	722		3	0.3	9.75		29-30	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	T-Sol kg/m3	D/M-Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
93	1625/1625	10.0	8.1	2.5	41/ 22.0	7.0/31.	0.18		0.004	80			350	100	1.2	2.5	/ 39
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	11500	19.4	67.1		0.00

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	13.00	PRESS TEST	
HNDL TOOLS	0.25	SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD	2.25	TRIPPING	7.00
SURVEYING		DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.75	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	12
Kelzan	
Desco	
Alkpam1103	
Soda Ash	3
Lignite	
Barite	45
Enviroflo	2
Chemicide	
Caustic	
Gypsum	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.08 @ 00:00 hours.
Drilled 444.5mm hole from 720m to 722m KB. Rig serviced. Circulated and conditioned mud. Raised mud weight to 1620 kg/m3. Tripped out bit #7 B due to high torque. Changed bits. Ran in hole with bit #8BRR to 719mKB. Cleaned 3m to bottom. Hole good on trip in and out.

Drilled 444.5mm hole from 722m to 725m KB at 24:00 hours 1999.05.08.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/08
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 48
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:

WEATHER: Windy, Blowing snow	TEMP: -3 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 720.00 m	PROGRESS: 13.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 722.00 m	8:00 a.m. OPERATION: Tripping for bit 7B. Due to excess torque.		

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 43628 CUMULATIVE COST: $ 6560872

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	49	Drill Pipe		Stick up

LENGTH: 720.00 m WT. BELOW JARS: 32000 daN JAR HRS: 67.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 756.25

WT. ON BIT: 28000 daN ROTARY RPM: 30/38 STRING WT.: 72000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WT/1000	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
7B	444.5	RBI	PR244	C-5	28.0	28.0	28.0	678		42	0.6	65.50		28-30	30								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tmp Deg C	Dnsty kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	% IN/OUT
91	1620/1620	10.0	8.2	2.5	38/ 18.0	6.0/30.		0.18		0.004	80			350	120	1.0	2.2	/ 41
	/				/	/												/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	11800	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.80° @ 713.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.50	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	8
Kelzan	
Desco	
Alkpac1103	
Soda Ash	1
Lignite	
Barite	20
Enviroflo	2
Chemcide	
Caustic	
Gypsum	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.07 @00:00 Hours: Drilled 444.5mm surface hole from 707mKB to 715m KB. Surveyed at 713mKB. 1.80 degrees. Rig serviced. Functioned remote choke. Drilled 444.5mm hole from 715mKB to 720mKB, at 24:00 hours 1999.05.07.

Note(1) Hole in good condition, no problems.

SUPERVISOR: B.Shudra D.Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/05/07
DAY: 47

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: m

WEATHER: Windy, Cool TEMP: -4 °C
Midnight DEPTH: 707.00 m PROGRESS: 15.00 m
8:00 a.m. DEPTH: 710.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $ 11253700 DAILY COST: $ 46332 CUMULATIVE COST: $ 6517244

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	48	Drill Pipe		Stick up

LENGTH: 707.00 m WT. BELOW JARS: 32000 daN JAR HRS: 43.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 732.75

WT. ON BIT: 28000 daN ROTARY RPM: 35/38 STRING WT.: 72000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD.	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
7B	444.5	RBI	PR244	C-5	28.0	28.0	28.0	678		29	0.7	42.00		28-30	30								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MFO	°C IN/OUT
91	1620/1620	10.0	8.6	2.5	38/ 18.5	6.0/32.	0.18		0.004	80			350	160	1.2	2.3	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11800	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
2.20 ° @ 695.00 m	
1.80 ° @ 704.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	9
Kelzan	
Desco	
Alkpam1103	1
Soda Ash	3
Lignite	3
Barite	
Enviroflo	2
Chemcide	
Caustic	
Gypsum	1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be Inserted below.)

1999.05.06 @ 00:00 Hours:
Drilled 444.5mm hole from 692-697mKB. Surveyed at 695mKB, 2.20 degrees. Drilled from 697-706mKB. Rig serviced. Surveyed at 704mKB, 1.80 degrees. Drilled 444.5mm hole from 706-707mKB to 24:00 hours 1999.05.06.

Note #1: No mud losses or gains in the last 24 hours.
#2: Hole in good condition.
#3: Very hard, abrasive formation encountered.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
U.W.I.: 300-N61-6040-12330-0
OFFICE SUPERVISOR: Mickey Sutherland
CONTRACTOR: Akita Drilling Ltd.
RIG #: 58E

LOCATION: 300-N61-6040-12330-0
CPA NO.: 300N616040123300

DATE: 99/05/06
DAY: 66

LICENCE NO.: 1863
SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG RELEASE: @ : hrs.
WELL STATUS:

KB: 610.7 m KB-GL: 6.7 m
GL: 604.0 m KB-CF: m

WEATHER: Windy, Cool, Snowing TEMP: -4 °C
Midnight DEPTH: 692.00 m PROGRESS: 14.00 m
8:00 a.m. DEPTH: 698.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

FINAL TD: m FORMATION:
PBTD: m FORMATION:

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 5630S CUMULATIVE COST: $ 6470912

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	46	Drill Pipe		

LENGTH: 697.41 m WT. BELOW JARS: 32000 daN JAR HRS: 19.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 709.75

WT. ON BIT: 30000 daN ROTARY RPM: 35/38 STRING WT.: 71000 daN
DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RND	WT daN	RPM	CUTTING STRUCT						REMARKS	
															I	B	D	L	B	G	O	R
7B	444.5	RBI	PR244	C-S	28.0	28.0	28.0	678		14	0.7	19.00		25-30	30							
										0				–								
										0				–								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/L	DENSITY IN/OUT	pH	WL cc/30min	FC ppm	PV/YP	GELS D/M	Tot. Sol kg/m3	Drill Sol kg/m3	SAND kg/m3	BENTORITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	ALKALINITY MFO	T °C IN/OUT
92	1620/1620	10.0	8.3	2.5	38/ 21.0	7.0/33.	0.17		0.004	80			350	120	1.1	2.7	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE F-1000					PUMP NO. 2 TYPE F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11900	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.65 ° @ 605.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	19.00	PRESS TEST	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	1.25	CIRCULATE	
COND MUD		TRIPPING	2.25
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.50	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	7
Kelzan	
Desco	
Alkpam1103	
Soda Ash	4
Lignite	5
Barite	20
Enviroflo c	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.05.05 @ 00:00 Hours:
Changed bits. Ran in hole with Bit #7B to 74mKB. Functioned annular. Ran in hole to 201mKB. Serviced top drive. Flow checked. Ran in hole from 201-630mKB. Cleaned from 630-678mKB. Hole good on trip. No tight hole. No Flows. Drilled 444.5mm hole from 678-687mKB. Surveyed at 685mKB, 1.65 degrees. Drilled 444.5mm hole from 687-692mKB, with 30,000 daN, to 24:00 hours 1999.05.05.

SUPERVISOR: B. Bhudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 654-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/05/06
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 46
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Windy, Cool, Snowing	TEMP: -4 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 692.00 m	PROGRESS: 14.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 698.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56305 CUMULATIVE COST: $ 6470912

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub	9	Heavy Weight	46	Drill Pipe		

LENGTH: 697.41 m WT. BELOW JARS: 32000 daN JAR HRS: 19.0 JAR SERIAL #: 10158

TOTAL ROTATING HOURS: 709.75

WT. ON BIT: 30000 daN ROTARY RPM: 35/38 STRING WT.: 71000 daN

DRILL PIPE O.D.: 127 THREAD: 5" XH DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
7B	444.5	RBI	PR244	C-5	28.0	28.0	28.0	678		14	0.7	19.00		28-30	30								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
92	1620/1620	10.0	8.3	2.5	38/ 21.0	7.0/33.	0.17		0.004	80			350	120	1.1	2.7	/ 46
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11900	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.65 ° @ 685.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	19.00	PRESS TEST	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	1.25	CIRCULATE	
COND MUD		TRIPPING	2.25
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.50	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	7
Kelzan	
Desco	
Alkpam1103	
Soda Ash	4
Lignite	5
Barite	20
Enviroflo c	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.05 @ 00:00 Hours:
Changed bits. Ran in hole with Bit #7B to 74mKB. Functioned annular. Ran in hole to 201mKB. Serviced top drive. Flow checked. Ran in hole from 201-630mKB. Cleaned from 630-678mKB. Hole good on trip. No tight hole. No Flows. Drilled 444.5mm hole from 678-687mKB. Surveyed at 685mKB, 1.65 degrees. Drilled 444.5mm hole from 687-692mKB, with 30,000 daN, to 24:00 hours 1999.05.05.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/05
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 45
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast,Rain,Snow,Wind	TEMP: -3 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 678.00 m	PROGRESS: 11.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 679.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 72779 CUMULATIVE COST: $ 6414607

BHA

1	Bit	1	Bit Sub	2	Drill Collar	1	3 Pt Reamer	1	Shock Sub
4	Drill Collar	1	XO Sub	1	Drilling Jar	8	Drill Collar	1	XO Sub
3	Drill Collar	1	XO Sub						

LENGTH: 174.28 m WT. BELOW JARS: 32000 daN JAR HRS: 500.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 690.75

WT. ON BIT: 29000 daN ROTARY RPM: 35/38 STRING WT.: 71000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
6B	444.5	Smith	NB8223	4JS	28.0	28.0	28.0	601	678	77	0.9	88.75		28-30	30	6	8	BT	H	E	I	WT	PR
7B	444.5	RBI	PR244	C-5	28.0	28.0	28.0	678		0		0.00		28-30									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpf	Mfo	°C IN/OUT
101	1620/1620	10.0	8.3	2.5	40/ 19.0	7.0/31.	0.17		0.003	80			350	100	1.1	2.3	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11500	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.65 ° @ 676.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	19.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	3.50
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Alkpam1103	
Soda Ash	6
Lignite	2
Barite	40
Envirofloc	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.04 @ 00:00 Hours:
Drilled 444.5mm hole with surveys as required, to 678mKB.
Tripped out bit #6B to 24:00 hours 1999.05.04.

Note #1: Drilled with 28000-30000 daN force on bit, to control deviation, from 667-678mKB.

Note #2: Bit #6B, 4JS, had 100% of the buttons broken off on the outside rows of cones #1, #2 and #3.

#3: Hole in good condition on trip.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/05/04
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 44
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast,Rain,Snow,Wind TEMP: -2.4 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 667.00 m PROGRESS: 21.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 673.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42718 CUMULATIVE COST: $ 6341828

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 500.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 671.00

WT. ON BIT: 29000 daN ROTARY RPM: 35/38 STRING WT.: 71000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
6B	444.5	Smith	NB8223	4JS	28.0	28.0	28.0	601		66	1.0	69.00		28-30	30								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tyt. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
97	1625/1625	10.0	8.1	2.5	38/ 18.0	6.0/28.	0.17		0.003	80			350	120	0.9	1.7	/ 46
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11600	19.4	67.1	24.8	25.68

SURVEYS

		AZIMUTH
1.80 °	@ 648.00 m	
1.75 °	@ 657.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	12
Kelzan	
Desco	
Alkpam1103	
Soda Ash	3
Lignite	
Barite	
Envirofloc	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.03 @ 00:00 Hours:
Drilled 444.5mm hole, with surveys as required, to 667mKB at 24:00 hours 1999.05.03.

Note: Drilled with 28000-30000 daN force on bit, to control deviation from 646-667mKB.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/05/03
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 43
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast, Rain TEMP: 4 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 646.00 m PROGRESS: 20.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 654.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 51428 CUMULATIVE COST: $ 6299110

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 476.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 648.00

WT. ON BIT: 29000 daN ROTARY RPM: 20/38 STRING WT.: 71000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
6B	444.5	Smith	NB8223	4JS	28.0	28.0	28.0	601		45	1.0	46.00		18-30	20								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Cs ppm	ALKALINITY MFI	MFO	°C IN/OUT
97	1620/1620	10.0	8.8	2.5	37/ 18.5	6.0/29.	0.18		0.003	75			350	100	1.0	2.1	/ 38
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11400	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.70 ° @ 638.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	0.25	TRIPPING	
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	9
Kelzan	
Desco	
Alkpam1103	
Soda Ash	3
Lignite	1
Barite	5
Envirofloc	1
Chemcide	
Caustic	
Gypsum	1

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.02 @ 00:00 Hours:
Drilled 444.5mm hole, surveying as required, to 646mKB at 24:00 hours 1999.05.02.
Note #1: Drilled with 28000-30000 daN force on bit, to control deviation, from 626-646mKB.

Note #2: Diesel fuel on hand: 600500 litres as of 1999.05.01
Gas on hand 117000 litres.
Calculated fuel used in the last 25 days: 167000 litres.
Average fuel used daily: 6680 litres.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/02
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 42
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast	TEMP: °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 626.00 m	PROGRESS: 25.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 632.00 m	8:00 a.m. OPERATION: Drilling 444 mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42795 CUMULATIVE COST: $ 6247682

BHA

1 Bit	1 Bit sub	2 Drill collar	1 3 Pt reamer	1 Shock subs	
4 Drill collar	1 XO sub	1 Drilling jar	8 Drill collar	1 XO sub	
3 Drill collar	1 XO sub				

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 452.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 625.00

WT. ON BIT: 29000 daN ROTARY RPM: 20/38 STRING WT.: 71000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
68	444.5	Smith	NB8223	4JS	28.0	28.0	28.0	601		25	1.1	23.00		18-30	20								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
98	1620/1620	10.0	8.4	2.5	40/ 18.0	7.0/30.	0.17		0.003	75			350	100	1.1	2.9	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	11400	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.80 ° @ 610.00 m	
1.40 ° @ 620.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	12
Kelzan	
Desco	
Alkpam1103	1
Soda Ash	3
Lignite	
Barite	
Enviroflo c	2
Chemcide	
Caustic	
Gypsum	2

MUD COMMENTS: Stripping Back Ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.05.01 @ 00:00 hours.
Broke circulation and washed to bottom (NO FILL).
Drilled 444 mm hole and surveyed as required.
Drilled 444 mm hole to 626 mKB to 23:59 hours 1999.05.01.
NOTE: Fan at 28,000 to 30,000 daN to control deviation from 601 mKB to 626 mKB.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/05/01
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 41
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -3 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 601.00 m	PROGRESS: 11.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 609.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 73861 CUMULATIVE COST: $ 6204887

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 428.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 602.00

WT. ON BIT: 29000 daN ROTARY RPM: 35/40 STRING WT.: 69000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	381	THREAD: H90	NO. IN HOLE: 2
			279	H90	4
			228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT#oN	RPM	I	O	D	L	B	G	O	R
5B	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493	601	108	0.9	121.25		28-30	35	5	7	WT	A	F	I	BT	PR
6B	444.5	Smith	NB8223	4JS	28.0	28.0	28.0	601		0				28-30	35								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS Q/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
104	1620/1620	10.0	8.0	2.0	39/ 19.0	7.0/30.	0.17		0.004	80			350	120	1.1	2.9	/ 38
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	11400	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.90° @ 599.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	16.25	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	7.00
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	4
Kelzan	
Desco	
Alkpam1103	
Soda Ash	
Lignite	
Barite	
Envirofloc	1
Chemcide	
Caustic	
Gypsum	1

MUD COMMENTS: Stripping Back Ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.30 @ 00:00 hours. Drilled 444.5mm surface hole, with surveys as required, to 601mKB. Tripped for bit NO. 6B, 4JS, to 24:00 hours 1999.04.30.

Note1: No problems on trip, well bore was very stable.

Note2: Force on bit, 28-30,000 daN, from 590-601 mKB.

Note3: Bit NO 5B had worn cutters, 80% were broken and chipped. Bearing failure.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

Revised "Remarks"

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL PLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/30
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 40
OFFICE SUPERVISOR: Rickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: °C	FINAL TD: m FORMATION:
Midnight DEPTH: 590.00 m	PROGRESS: 21.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 596.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 43119 CUMULATIVE COST: $ 6131026

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs		
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub		
3	Drill collar	1	XO sub								

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 404.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 585.75

WT. ON BIT: 29000 daN ROTARY RPM: 35/40 STRING WT.: 69000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES /32nds			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS IN BIT: DRL.	HOURS IN BIT: RMD	BIT: WT daN	BIT: RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS D	R
58	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		97	0.9	105.00		28-30	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL ml/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m³	ONE. SAL kg/m³	SAND kg/m³	BENTONITE kg/m³	LCM kg/m³	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Pm	°C IN/OUT
101	1630/1630	10.0	8.0	2.0	40/ 19.0	6.0/33.			0.004	80			350	100	1.1	2.8	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m³	OUT	kg/m³	DILUTER HR OUT	kg/m³	DESANDER HR OUT	kg/m³	DEGASSER HR OUT	kg/m³	TOTAL MUD DUMPED m³

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m³/MIN	MODEL	LINER mm	STROKE mm	SPM	m³/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11600	19.4	67.1	24.8	25.76

SURVEYS

	AZIMUTH
1.40° @ 571.00 m	
1.70° @ 580.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Alkpam1103	
Soda Ash	3
Lignite	
Barite	
Enviroflac	
Chemcide	
Caustic	
Gypsum	

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.29 @ 00:00 Hours:

Drilled 444.5mm hole, surveying as required, to 590mKB at 24:00 hours 1999.04.29.

Note: Varied weight on bit to control deviation:
From 569-572mKB, 28-30,000 daN.
From 572-581mKB, 29-31,000 daN.
From 581-590mKB, 28-30,000 daN.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 99/ST

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/29
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 39
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -3.2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 569.00 m	PROGRESS: 18.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 577.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56641 CUMULATIVE COST: $ 6087907

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 380.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 562.75

WT. ON BIT: 29000 daN ROTARY RPM: 35/40 STRING WT.: 68000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
58	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		76	0.9	81.75		28-30	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Oil. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY Mf	Mo	°C IN/OUT
86	1620/1620	10.0	8.4	2.0	39/ 16.0	6.0/31.				80			350	100	1.2	3.0	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11600	19.4	67.1	24.8	25.60

SURVEYS

	AZIMUTH
1.70° @ 552.00 m	
1.80° @ 561.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	4
Kelzan	
Desco	
Alkpam1103	1
Soda Ash	3
Lignite	
Barite	
Enviroflo c	2
Chemcide	
Caustic	
Gypsum	2

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.28 @ 00:00 Hours:
Drilled 444.5mm hole, surveying as required, to 569mKB at 24:00 hours 1999.04.28.
Note #1: Drilled with 28000-30000 daN force on bit to control deviation from 552-569mKB.
Note #2: No increases or losses in mud system in the last 24 hours.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/28
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 38
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Snow	TEMP: -5 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 551.00 m	PROGRESS: 20.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 557.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 42469 CUMULATIVE COST: $ 6031266

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 356.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 540.00

WT. ON BIT: 33000 daN ROTARY RPM: 35/40 STRING WT.: 68000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2

279 H90 4

228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
5B	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		58	1.0	59.25		28-33	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND %g/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
81	1610/1620	10.0	8.6	2.0	40/ 18.0	6.0/30.				80			350	100	1.1	3.3	/ 35
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11600	19.4	67.1	24.8	25.53

SURVEYS

	AZIMUTH
1.30° @ 532.00 m	
1.10° @ 542.00 m	
1.70° @ 552.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.25	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	7
Kelzan	
Desco	
Percol 728	
Soda Ash	3
Lignite	
Barite	127
Enviroflo c	
Chemcide	
Caustic	1
Gypsum	

MUD COMMENTS: Stripping back ditch water and Barite recovery with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.27 @ 00:00 Hours:

Drilled 444.5mm hole, surveying as required, to 551mKB at 24:00 hours 1999.04.27.

Note: Drilled with 28000-30000 daN force on bit, to control deviation, from 531mKB to 543mKB.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/27
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 37
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Snow	TEMP: -7 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 531.00 m	PROGRESS: 26.00 m	PBTD: m	FORMATION:
0:00 a.m. DEPTH: 539.00 m	0:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 50622 CUMULATIVE COST: $ 5988797

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 308.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 516.75

WT. ON BIT: 30000 daN ROTARY RPM: 35/40 STRING WT.: 67000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
5B	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		38	1.1	36.00		29-35	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pm	°C IN/OUT
92	1615/1620	10.0	8.5	2.0	48/ 19.5	6.0/22.				90			350	80	1.2	3.3	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11600	19.4	67.1	24.8	25.57

SURVEYS

	AZIMUTH
1.00° @ 513.00 m	
1.40° @ 523.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.00	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Percol 728	
Soda Ash	3
Lignite	
Barite	53
Enviroflo	
Chemcide	
Caustic	1
Gypsum	

MUD COMMENTS: Stripping back ditch water with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.26 @ 00:00 Hours:

Drilled 444.5mm hole, surveying as required, to 531mKB at 24:00 hours 1999.04.26.

Note #1: Reduced force on bit to 28000-30000 daN to control deviation from 523-531mKB.

#2: Total snow accumulation: +/- 8 inches on location.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/26
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 36
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Snow, Windy	TEMP: -6 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 505.00 m	PROGRESS: 12.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 516.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 49708 CUMULATIVE COST: $ 5938175

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	1	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 175.06 m WT. BELOW JARS: 32000 daN JAR HRS: 308.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 493.75

WT. ON BIT: 34000 daN ROTARY RPM: 35/40 STRING WT.: 67000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.: 381	THREAD: H90	NO. IN HOLE: 2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RND	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
58	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		12	0.9	13.00		32-35	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
85	1630/1630	10.0	8.5	2.0	45/ 17.5	6.0/24.				80			350	240	1.4	3.5	/ 34
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	12500	19.4	67.1	24.8	25.76

SURVEYS

		AZIMUTH
0.75 °	@ 495.00 m	
0.50 °	@ 503.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	13.50	PRESS TEST	
HNDL TOOLS	0.75	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	1.75
SURVEYING	0.50	DRLG OUT	
REAMING	7.00	CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	24
Kelzan	
Desco	
Percol 728	
Soda Ash	2
Lignite	
Barite	250
Enviroflloc	2
Chemcide	
Caustic	
Gypsum	2

MUD COMMENTS: Stripping back ditch water with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.25 @ 00:00 Hours:
Tripped in bit #5B, 4JS. Reamed hole from 467mKB to 493mKB. Drilled 444.5mm hole, surveying as required, to 505mKB at 24:00 hours 1999.04.25.

Note: Had 5.6m3 influx of fluid on trip, density came out of hole at 1580 kg/m3, prior to trip, 1615 kg/m3. Increased density to 1630 kg/m3. No further increase while reaming or drilling.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/25
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 35
OFFICE SUPERVISOR: Rickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 582	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast,Snow,Windy	TEMP: -2.2 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 493.00 m	PROGRESS: 15.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 493.00 m	8:00 a.m. OPERATION: Reaming to bottom. At 486mKB.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 49755 CUMULATIVE COST: $ 5888467

BHA

1 Bit	1 Bit sub	2 Drill collar	1 3 Pt reamer	2 Shock subs	
4 Drill collar	1 XO sub	1 Drilling jar	8 Drill collar	1 XO sub	
3 Drill collar	1 XO sub				

LENGTH: 177.56 m WT. BELOW JARS: 32000 daN JAR HRS: 284.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 480.75

WT. ON BIT: 34000 daN ROTARY RPM: 35/45 STRING WT.: 67000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.: 381	THREAD: H90	NO. IN HOLE: 2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES e/m 1	2	3	DEPTH IN	OUT	METRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
48	444.5	Smith	NB3936	3JS	28.0	28.0	28.0	422	493	71	0.9	80.50		32-35	35	6	8	BT	A	E	4	WT	PR
58	444.5	Smith	SAT502	4JS	28.0	28.0	28.0	493		0		0.00		-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m³	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol % kg/m³	Oil Sol kg/m³	SAND kg/m³	BENTONITE kg/m³	LCM kg/m³	OIL %	Cl ppm	CC ppm	ALKALINITY MUD	MFO	°C IN/OUT
84	1600/1600	10.0	8.5	2.0	55/ 20.0	8.0/18.				90			300	60	0.9	2.3	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m³ OUT	kg/m³	DESILTER HR OUT	kg/m³	DESANDER HR OUT	kg/m³	DEGASSER HR OUT	kg/m³	TOTAL MUD DUMPED m³

PUMP

PUMP NO.: 1 TYPE: F-1000					PUMP NO.: 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY:		JET	
MODEL	LINER mm	STROKE mm	SPM	m³/MIN	MODEL	LINER mm	STROKE mm	SPM	m³/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	12500	19.4	67.1	24.8	25.29

SURVEYS

	AZIMUTH
0.50° @ 478.00 m	
0.50° @ 487.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	17.25	PRESS TEST	
MNDL TOOLS	1.00	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	5.00
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Percol 728	1
Soda Ash	3
Lignite	2
Barite	168
Enviroflac	1
Chemcide	
Caustic	1
Gypsum	2

MUD COMMENTS: Stripping Back Ditch water with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.24 @ 00:00 hours:
Drilled 444.5mm hole, with surveys as required, to 493mKB.
Tripped for Bit no. 58 , 4JS to 24:00 hours 1999.04.24.

TE:(1) Laid down one shock tool, Serial No. 10576, due to 3 inches movement on mandrel.

(2) Hole in good condition on trip.
(3) No losses or gains in mud system in last 24 hours.

SUPERVISOR: R.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 456-057-6130-5210

NEB Pavilers

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/24
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 34
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear , Windy	TEMP: 3.2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 478.00 m	PROGRESS: 23.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 485.00 m	8:00 a.m. OPERATION: Drilling 444.5 mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 45456 CUMULATIVE COST: $ 5838712

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	2	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 177.56 m WT. BELOW JARS: 32000 daN JAR HRS: 236.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 463.50

WT. ON BIT: 32000 daN ROTARY RPM: 35/45 STRING WT.: 67000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL	HOURS ON BIT RMD	WT 1000	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS G	R
48	444.5	Smith	NB3936	3JS	28.0	28.0	28.0	422		56	0.9	63.25		30-32	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity s/qt	DENSITY kg/m³ OUT	pH	MC ml/30min	FC mm	PV/YP mPa·s / Pa	GELS 0/10 Pa	Tvn, 5ok kg/m²	Oil, % c kg/m³	SAND % by vol	BENTONITE kg/m³	LCM kg/m³	HR %	Cl mg/l	Ca mg/l	ALKALINITY MPI	ALKALINITY MFO	°C OUT
107	1605/1605	10.0	8.0	2.0	60/ 23.0	10./25.				90			300	60	1.0	2.5	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m³	OUT	kg/m³	DESILTER HR OUT	kg/m³	DESANDER HR OUT	kg/m³	DEGASSER HR OUT	kg/m³	TOTAL MUD DUMPED m³

PUMP

PUMP NO.1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m³/MIN	PUMP NO.2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m³/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	JET HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	12500	19.4	67.1	24.8	25.36

SURVEYS

		AZIMUTH
0.25 ° @	459.00 m	
0.50 ° @	468.00 m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	
° @	m	

TIME BREAKDOWN

DRILLING	22.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.75	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Alkpac1103	
Soda Ash	4
Lignite	
Barite	124
Enviroflo	
Chemcide	
Caustic	2
Gypsum	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.04.23 @ 00:00 hours:
Drilled 444.5mm hole, with surveys as required, to 478mKB at 24:00 hours 1999.04.23.

Note(1): Hole in good condition. No losses or gains in mud volume.

SUPERVISOR: M.Rogerson J.Brazel PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

CD 98/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/23
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 33
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Windy	TEMP: 7.3 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 455.00 m	PROGRESS: 18.00 m	PBTD: m	FORMATION:
6:00 a.m. DEPTH: 465.00 m	6:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 61616 CUMULATIVE COST: $ 5793256

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	2	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 177.56 m WT. BELOW JARS: 32000 daN JAR HRS: 236.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 440.75

WT. ON BIT: 15000 daN ROTARY RPM: 35/50 STRING WT.: 66000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R
4B	444.5	Smith	NB3936	3JS	28.0	28.0	28.0	422		33	0.7	47.75		13-32	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
100	1610/1610	10.0	7.0	2.0	70/ 21.0	10./25.				90			300	60	0.9	2.3	/ 35
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	12500	19.4	67.1	24.8	25.44

SURVEYS

AZIMUTH		
1.25 °	@	439.00 m
0.75 °	@	430.00 m
0.75 °	@	430.00 m
0.50 °	@	419.00 m
0.25 °	@	439.00 m
0.25 °	@	449.00 m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING	21.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	0.25	TRIPPING	
SURVEYING	1.75	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	2
Desco	
Alkpam1103	1
Soda Ash	3
Lignite	1
Barite	
Envirofloc	1
Chemcide	1
Caustic	1
Gypsum	2

MUD COMMENTS: Stripping back ditch water with Wadeco.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.22 @ 00:00 Hours:

Drilled 444.5mm surface hole, surveying as required, from 437mKB to 455mKB at 24:00 hours 1999.04.22.

Note #1: Drilled with 13000 to 15000 daN to control deviation to 441mKB.

Note #2: Survey 439mKB, 1.25 degree with Totco.

Note #3: Pulled up and reran survey at 430mKB with Totco, survey was .75 degree, a change of 2 degrees from the survey that was run at that point. Rigged up Whipstock single shot and checked survey at 419mKB .50 degree, change of 1.7 degree, 430mKB .75 degree 439mKB .25 degree.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/22
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 32
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:

WEATHER: Clear TEMP: -5 °C FINAL TD: m FORMATION:
Midnight DEPTH: 437.00 m PROGRESS: 14.00 m PBTD: m FORMATION:
8:00 a.m. DEPTH: 442.00 m 8:00 a.m. OPERATION: Drilling 444mm surface hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 41520 CUMULATIVE COST: $ 5731640

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	2	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 177.56 m WT. BELOW JARS: 32000 daN JAR HRS: 177.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 419.00

WT. ON BIT: 15000 daN ROTARY RPM: 35/50 STRING WT.: 66000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
4B	444.5	Smith	N83936	3JS	28.0	28.0	28.0	422		15	0.6	26.00		13-18	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY Mf	Mo	°C IN/OUT
90	1610/1610	9.7	7.0	2.0	60/ 20.0	6.0/18.				90			300	60	1.0	2.6	/ 30
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	12500	19.4	67.1	24.8	25.44

SURVEYS

	AZIMUTH
2.75 ° @ 430.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.50	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Kelzan	
Desco	
Walnut	
Soda Ash	3
Lignite	2
Barite	
Defoam xl	
Chemcide	
Caustic	1
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.21 @ 00:00 Hours:
Drilled 444mm surface hole, with surveys as required, to 437mKB at 24:00 hours 1999.04.21.

Note: 13000 to 15000 daN on bit to control deviation.

SUPERVISOR: M.Rogerson/J.Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 99/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 31
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: S8E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs
		WELL STATUS:
WEATHER: Partly cloudy	TEMP: -1 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 423.00 m	PROGRESS: 10.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 429.00 m	8:00 a.m. OPERATION: Control drilling 444.5mm surface hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 77184 CUMULATIVE COST: $ 5690120

BHA

1	Bit	1	Bit sub	2	Drill collar	1	3 Pt reamer	2	Shock subs
4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub
3	Drill collar	1	XO sub						

LENGTH: 177.56 m WT. BELOW JARS: 32000 daN JAR HRS: 177.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 395.50

WT. ON BIT: 18000 daN ROTARY RPM: 35/50 STRING WT.: 66000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267	335	68	1.1	59.26	5.25	22-27	30	6	6	FC	A	E	I	CT	PR
3B	444.5	Smith	XJ 4681	3JS	28.0	28.0	28.0	335	422	87	1.2	75.50		18-20	35	6	8	BT	G	E	I	FC	PR
4B	444.5	Smith	NB3936	3JS	28.0	28.0	28.0	422		1	0.4	2.50		18-	35								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [X]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	ALKALINITY MPO	°C IN/OUT
90	1600/1605	9.7	7.0	2.0	55/ 25.0	8.0/30.				100			300	80	0.9	2.3	/ 30
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	13000	19.4	67.1	24.8	25.33

SURVEYS

	AZIMUTH
2.13° @ 419.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	13.00	PRESS TEST	
HNDL TOOLS	2.00	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	6.75
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.50	W.O.C.	
REPAIRS	0.75	W.O.T.	
PU/LD PIPE		Flow check	0.25
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	10
Kelzan	1
Desco	
Walnut	
Soda Ash	
Lignite	4
Barite	
Defoam xl	
Chemcide	
Caustic	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.20 @ 00:00 Hours:
Control drilled 444.5mm hole from 413-422mKB with surveys as required. Flow checked. Tripped bit #3B. Monitored well for influx. (Well took correct amount of fluid on trip.) Changed bottom hole assembly and tripped in with bit #4B to 402mKB. Broke circulation and cleaned 20m to bottom with 10m fill. Welded precharge pressure line on #2 mud pump. Drilled 444.5mm hole from 422-423mKB to 24:00 hours 1999.04.20.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/20
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 30
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -1 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 413.00 m	PROGRESS: 24.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 420.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 43767 CUMULATIVE COST: $ 5612936

BHA

1	Bit	1	Bit sub	1	Drill collar	1	3 Pt reamer	1	Drill collar
2	Shock subs	4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar
1	XO sub	3	Drill collar	1	XO sub				

LENGTH: 175.85 m WT. BELOW JARS: 32000 daN JAR HRS: 164.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 382.50

WT. ON BIT: 20000 daN ROTARY RPM: 35/50 STRING WT.: 66000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	381	THREAD: H90	NO. IN HOLE: 2
			279	H90	4
			228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267	335	68	1.1	59.26	5.25	22-27	30	6	6	FC	A	E	I	CT	PR
3B	444.5	Smith	XJ 4681	3JS	28.0	28.0	28.0	335		78	1.2	65.00		18-20	35								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
88	1600/1605	10.1	7.0	3.0	60/ 20.0	5.0/30.				90			300	80	1.0	2.7	/ 40
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11000	19.4	67.1	24.8	25.33

SURVEYS

	AZIMUTH
2.13° @ 389.00 m	
2.13° @ 399.00 m	
1.88° @ 409.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	22.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
SLIP & CUT		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Cellophane	
Desco	1
Walnut	
Soda Ash	2
Lignite	4
Barite	
Defoam xl	
Chemcide	
Caustic	1
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.19 @ 00:00 Hours:
Control drilled 444.5mm hole from 389mKB, with surveys as required, to 413mKB at 23:59 hours 1999.04.19.

Note #1: No problem with mud gains or losses in the last 24 hours.

Note #2: Last 24 hours 100% sandstone with very erratic penetration rate.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/04/19
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 29
OFFICE SUPERVISOR: Nickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Overcast TEMP: 6 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 389.00 m PROGRESS: 32.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 393.00 m 8:00 a.m. OPERATION: Drilling 444.5mm surface hole.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 43806 CUMULATIVE COST: $ 5569169

BHA

1	Bit	1	Bit sub	1	Drill collar	1	3 Pt reamer	1	Drill collar
2	Shock subs	4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar
1	XO sub	3	Drill collar	1	XO sub				

LENGTH: 175.85 m WT. BELOW JARS: 32000 daN JAR HRS: 142.0 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 359.75

WT. ON BIT: 18000 daN ROTARY RPM: 35/50 STRING WT.: 65000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RND	WT daN	RPM	I	O	D	L	B	G	O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267	335	68	1.1	59.26	5.25	22-27	30	6	6	FC	A	E	I	CT	PR
3B	444.5	Smith	XJ 4681	3JS	28.0	28.0	28.0	335		54	1.3	42.25		27-18	35								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GEL$ 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Mfo	°C IN/OUT
109	1600/1610	9.7	9.6	2.0	52/ 26.0	10./25.				100			300	60	0.6	1.7	/ 41
90	1610/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11000	19.4	67.1	24.8	25.40

SURVEYS

	AZIMUTH
1.00° @	362.00 m
1.50° @	371.00 m
3.00° @	381.00 m
2.13° @	389.00 m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m
° @	m

TIME BREAKDOWN

DRILLING	22.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.75	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
SLIP & CUT		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	12
Cellophane	
Desco	
Walnut	
Soda Ash	2
Lignite	1
Barite	
Defoam xl	
Chemcide	
Caustic	1
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.18 @ 00:00 Hours:
Drilled 444.5mm hole from 357mKB, with surveys as required, to 389mKB at 24:00 hours 1999.04.18.
Note #1: No gains or losses in wellbore volume in last 24 hours.
#2: Reduced weight on bit at 371mKB from 27,000 to 24,000 daN. At 381mKB reduced weight to 18,000 daN.
Note #3: Building up road around rig due to frost coming out.
#4: Current weight on bit, 20,000 daN. Drilling in dense brown sand, highly cemented, laminated. Penetration rate between 1-3.6m/hour.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/18
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 28
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -1 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 357.00 m	PROGRESS: 22.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 365.00 m	8:00 a.m. OPERATION: Drilling 444.5 mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 71984 CUMULATIVE COST: $ 5525363

BHA

1	Bit	1	Bit sub	1	Drill collar	1	3 Pt reamer	1	Drill collar
2	Shock subs	4	Drill collar	1	XO sub	1	Drilling jar	8	Drill collar
1	XO sub	3	Drill collar	1	XO sub				

LENGTH: 175.85 m WT. BELOW JARS: 32000 daN JAR HRS: 119.2 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 337.00

WT. ON BIT: 25000 daN ROTARY RPM: 35/50 STRING WT.: 66000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267	335	68	1.1	59.26	5.25	22-27	30	6	6	FC	A	E	I	CT	PR
3B	444.5	Smith	XJ 4681	3JS	22.0	22.0	22.0	335		22	1.1	19.50		27-25	35								

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/l	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
80	1600/1610	10.2	8.8	2.0	40/ 18.0	8.0/22.				100			300	60	0.9	2.0	/ 39
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	10700	19.4	67.1	40.2	66.56

SURVEYS

		AZIMUTH
1.88 °	@ 351.00 m	
1.00 °	@ 362.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	19.50	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	2.75
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM	0.25	W.O.C.	
SLIP & CUT	0.75	W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	
Cellophane	
Desco	
Walnut	
Soda Ash	2
Mica	
Barite	
Defoam xl	
Chemcide	
Caustic	1
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.17 @00:00 Hours. Tripped in bit #3B to 208 mKB. Slipped and cut drilling line. Tripped to 325 mKB. Broke circulation and washed 10 m to bottom, no fill. Drilled 444.5 mm hole from 335 mKB, surveying as required, to 357 mKB at 24:00 hours 1999.04.17.

Note 1. Mud volume remained constant throughout the trip, and throughout the day during drilling operations. No further increases in density were required. No losses or gains were experienced.

SUPERVISOR: D Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/17
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 27
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 335.00 m	PROGRESS: 18.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 340.00 m	8:00 a.m. OPERATION: Drilling 444.5 mm hole surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 52352 CUMULATIVE COST: $ 5453379

BHA

1	Bit	1	Bit sub	1	3 PT reamer	1	Drill collar	1	3 Pt reamer
1	Drill collar	1	String stab	2	Shock subs	4	Drill collar	1	XO sub
1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar	1	XO sub

LENGTH: 182.02 m WT. BELOW JARS: daN JAR HRS: 99.7 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 317.50

WT. ON BIT: 27000 daN ROTARY RPM: 35/45 STRING WT.: 68000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267	335	68	1.1	59.26	5.25	1- 3	30	6	6	FC	A	E	I	CT	PR
3B	444.5	Smith		3JS	22.0	22.0	20.0	335		-335				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
70	1570/1610	10.0	9.0	2.0	36/ 18.0	8.0/18.				110			300	60	0.9	2.0	/ 40
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	12800	19.4	67.1	42.6	74.28

SURVEYS

			AZIMUTH
1.13	° @	319.00 m	
1.00	° @	331.00 m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	

TIME BREAKDOWN

DRILLING	18.50	PRESS TEST	
MNDL TOOLS	1.25	SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	2.75
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	0.50
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	
Gel	13
Cellophane	
Desco	
Walnut	
Soda Ash	2
Mica	
Barite	462
Defoamer	
Chemcide	
Caustic	2
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.16 @ 00:00 hours.Drilled 444.5mm hole from 317-334 mKB. Surveyed as required. Controlled mud density at 1530 kg/m3. Increased density to 1570 kg/m prior to trip. Flow checked well .25 hours, well was static. Wirelined survey and monitored well. Well began to flow slightly. Drilled 444.5 mm hole from 334 mKB to 335 mKB increased density to 1610 kg/m for a trip margin. Flow checked well .25 hours, well static.Tripped bit #2BRR.Monitored well for flow. Laid down bottomhole 3 point roller reamer and the string stabilizer to 24:00 hours 1999.04.16

SUPERVISOR: D Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/16
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 26
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 4 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 317.00 m	PROGRESS: 19.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 326.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 75678 CUMULATIVE COST: $ 5401027

BHA

1	Bit	1	Bit sub	1	3 PT reamer	1	Drill collar	1	3 Pt reamer
1	Drill collar	1	String stab	2	Shock subs	4	Drill collar	1	XO sub
1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar	1	XO sub

LENGTH: 182.02 m WT. BELOW JARS: daN JAR HRS: 81.2 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 299.00

WT. ON BIT: 25000 daN ROTARY RPM: 35/45 STRING WT.: 68000 daN

DRILL PIPE O.D.	THREAD:	DRILL COLLARS O.D.	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267		50	1.2	40.75	5.25	1-3	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
53	1520/1530	9.4	9.4	2.0	30/ 14.0	6.0/15.				90			300	40	1.0	2.0	/ 38
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	11000	19.4	67.1	42.6	71.24

SURVEYS

	AZIMUTH
1.13 ° @ 300.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	23.25	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.25	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Drispac	5
Gel	82
Cellophane	4
Desco	-5
Walnut	8
Soda Ash	7
Mica	4
Barite	1382
Defoamer	1
Chemcide	1
Caustic	2
Sawdust	5

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.15 @ 00:00 Hours:

Drilled 444.5mm hole from 298mKB, surveying as required, to 317mKB at 24:00 hours 1999.04.15.

Note #1: Raised and controlled mud density at 1530 kg/m3.

#2: Transferred 15m3 1500 kg/m3 premix mud to active system which raised density from 1450 kg/m3 to 1490 kg/m3 then increased system to 1530 kg/m3.

Note #3: Increased mud density to control water flow into system. If water flow is not curtailed, the mud gets water cut, density drops and water flow increases. This further dilutes mud and increases water flow.

SUPERVISOR: D. Solberg PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/15
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 25
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -2 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 298.00 m	PROGRESS: 31.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 303.00 m	8:00 a.m. OPERATION: Drill 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 102832 CUMULATIVE COST: $ 5325349

BHA

1	Bit	1	Bit sub	1	3 PT reamer	1	Drill collar	1	3 Pt reamer
1	Drill collar	1	String stab	2	Shock subs	4	Drill collar	1	XO sub
1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar	1	XO sub

LENGTH: 182.02 m WT. BELOW JARS: daN JAR HRS: 58.0 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 275.75

WT. ON BIT: 24000 daN ROTARY RPM: 35/45 STRING WT.: 68000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		381	H90	2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	1	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267		31	1.8	17.50	5.25	1-3	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min/o	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
65	1370/1410	9.7	10.0	3.0	27/ 14.0	8.0/15.				100			250	200	0.2	0.8	/ 12
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	10000	19.4	67.1	42.6	64.94

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	17.50	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD	5.25	TRIPPING	
SURVEYING		DRLG OUT	
REAMING	0.50	CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	0.25
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Starpak	10
Gel	254
Cellophane	
Desco	5
Walnut	
Soda Ash	12
Alkapam110	
Barite	1985
Defoamer	
Kelzan	
Envirofloc	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.14 @ 00:00 Hours:

Reamed 444.5mm hole from 264-267mKB. Drilled 444.5mm hole from 267-293mKB. Flow checked well at 269mKB. Transferred 15m3 1500 kg/m3 mud to active system and pumped it down hole. Returned 1260 kg/m3, 32 sec/litre viscosity at surface. Flow checked well. Well flowed at 0.5m3/minute. Shut well in. Rotated drill string at 3 rpm. Mixed mud in tanks to 55 sec/litre and a density of 1420 kg/m3. Displaced to hole. Hole remained static for 0.5 hours, then began to flow. Shut well in. Mixed mud in tanks to 56 sec/litre and a density of 1410 kg/m3. Opened well and circulated mud system. Returned a density of 1370 kg/m3 at surface.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/04/15
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 25 DEPTH: 298.00 m PROGRESS: 31.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -2 °C
8:00 a.m. OPERATION: Drill 444.5mm surface hole.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Drilled 444.5mm hole from 293-298mKB at 24:00 hours 1999.04.14.

Note #1: Increase of mud density from 1370 kg/m3 to 1390 kg/m3 decreased the well flow from 3.25 m3/hour to 2.5 m3/hour.
#2: Well seems to be controlled, static, with a mud density of 1430 kg/m3.

REPORTED BY: B. Shudra/D. Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/14
UWI: 300-N61-6040-12330-0	CPA NO: 300N616040123300		DAY: 24
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 267.00 m	PROGRESS: 5.00 m	PBTD: m	FORMATION:
8.00 a.m. DEPTH: 290.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 107546 CUMULATIVE COST: $ 5222517

BHA

1	Bit	1	Bit sub	1	3 PT reamer	1	Drill collar	1	3 Pt reamer
1	Drill collar	1	String stab	2	Shock subs	4	Drill collar	1	XO sub
1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar	1	XO sub

LENGTH: 182.02 m WT. BELOW JARS: daN JAR HRS: 40.5 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 258.25

WT. ON BIT: 15000 daN ROTARY RPM: 25/35 STRING WT.: 65000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.: 381	THREAD: H90	NO. IN HOLE: 2
		279	H90	4
		228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RND	WT daN	RPM	I	O	D	L	B	G	Q	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185	267	82	2.0	40.50		12-15	25	1	2	FC	A	E	I	WT	BHA
2BRR	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	267		0			4.75	1- 3	30								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
46	1310/1310	9.7			15/ 6.0	3.0/5.0				40			350	80	0.3	1.8	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1			TYPE: F-1000		PUMP NO. 2			TYPE: F-1000		PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	10000	19.4	67.1	42.6	61.20

SURVEYS

	AZIMUTH
0.50 ° @ 262.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	6.50	PRESS TEST	
HNDL TOOLS	2.50	SAFETY MTG	
RIG SERV	0.25	CIRCULATE	0.50
COND MUD	4.25	TRIPPING	4.75
SURVEYING	0.25	DRLG OUT	
REAMING	4.75	CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	0.25
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Starpak	2
Gel	96
Cellophane	4
Desco	
Walnut	2
Soda Ash	2
Alkapam110	
Barite	598
Defoamer	
Kelzan	
Enviroflo	
Sawdust	10

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.13 @ 00:00 Hours:
Drilled 444.5mm hole from 262-267mKB. Flow checked. Rig serviced. Pumped weighted lost circulation pill, at 1225 kg/m3, while drilling. Circulated bottoms up. Weighted up to 1250 kg/m3. Well still flowing. Circulated and weighted up mud to 1305 kg/m3. Survey at 262mKB, 0.50 degree. Tripped out of hole. Picked up 2-3 point reamers, 1-string stabilizer and 1 shock sub for total of 2 shock subs. Ran in hole to 213mKB. Reamed from 213-222mKB. Stuck for 0.50 hours. Jarred free. Reamed from 222-264mKB at 24:00 hours 1999.04.13.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/13
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 23
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: 2 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 262.00 m	PROGRESS: 41.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 267.00 m	8:00 a.m. OPERATION: Trip out Bit #18.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 56052 CUMULATIVE COST: $ 5114971

BHA

1	Bit	1	Bit sub	2	Drill collar	1	Shock sub	4	Drill collar
1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar
1	XO sub	9	Heavy weight	2	Drill pipe				

LENGTH: 272.40 m WT. BELOW JARS: daN JAR HRS: 34.0 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 251.75

WT. ON BIT: 15000 daN ROTARY RPM: 25/35 STRING WT.: 65000 daN

	DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
			381	H90	2
			279	H90	4
			228	H90	8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
18	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185		77	2.3	34.00		12-15	25								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
39	1200/1200	9.9			9/ 3.0	2.0/3.0				35			300	100	0.5	2.3	/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
6 HR IN	1030 kg/m3	OUT	1005 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	OC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	8500	19.4	67.1	42.6	56.06

SURVEYS

	AZIMUTH	
°	@ 232.00 m	
0.88 °	@ 250.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	22.75	PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.50	CIRCULATE	
COND MUD		TRIPPING	
SURVEYING	0.50	DRLG OUT	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		Flow check	0.25
W.N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	122
Drispac	
Desco	2
Sulf acid	1
Soda Ash	11
Alkapam110	1
Barite	252
Defoamer	9
Kelzan	1
Enviroflo	2
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.12 @ 00:00 Hours:

Drilled 444.5mm hole from 221-234mKB. Surveyed at 232mKB, misrun. Rig serviced. Drilled 444.5mm hole from 234-243mKB with top drive. Rough drilling from 242-243mKB. Increase in mud volume. Flow checked. Well was static. Shut down centrifuges. Pump weighted premix to mud system. Drilled 444.5mm hole from 243-252mKB. Rig serviced. Surveyed at 250mKB, .875 degrees. Well flowed with pump shut off. No increase while pumping with 1170 kg/m3 density. Increased density to 1220 kg/m3. Well static. Drilled 444.5mm hole from 252-262mKB to 24:00 hours 1999.04.12.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/12
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 22
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:

WEATHER: Clear	TEMP: °C	FINAL TD:	m	FORMATION:	
Midnight DEPTH: 221.00 m	PROGRESS: 36.00 m	PBTD:	m	FORMATION:	
8:00 a.m. DEPTH: 248.00 m	8:00 a.m. OPERATION: Drilling 444.5mm surface hole.				

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 81141 CUMULATIVE COST: $ 5058919

BHA

1	Bit	1	Bit sub	2	Drill collar	1	Shock sub	4	Drill collar
1	XO sub	1	Drilling jar	8	Drill collar	1	XO sub	3	Drill collar
1	XO sub	7	Heavy weight						

LENGTH: 234.76 m WT. BELOW JARS: daN JAR HRS: 11.3 JAR SERIAL #: 10881

TOTAL ROTATING HOURS: 229.00

WT. ON BIT: 10000 daN ROTARY RPM: 60/80 STRING WT.: 64000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2
279 H90 4
228 H90 8

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
1B	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185		36	3.2	11.25		10-17	60								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
43	1080/1080	11.0			10/ 3.0	2.0/4.0				45			300	120	0.3	0.6	/
41	1030/1030	11.0			/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
24 HR IN	1060 kg/m3	OUT	1030 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	6400	19.4	67.1	42.6	49.28

SURVEYS

	AZIMUTH
0.50 ° @ 207.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	11.25	PRESS TEST	0.25
HNDL TOOLS	3.25	SAFETY MTG	0.25
RIG SERV	0.75	CIRCULATE	
COND MUD	1.00	TRIPPING	
SURVEYING	0.25	DRLG OUT	0.25
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		DC INSPECT	6.75
N.U. BOP		CSG BOWL	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	1
Gel	
Drispac	
Desco	
Bicarb	3
Soda Ash	
Caustic	1
Barite	
Defoamer	2
Kelzan	
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.11 @ 00:00 Hours:
Inspected drill collars and top drive. 2 cracked 288mm drill collars, 1 cracked 178mm drill collar, all cracked on box end. Rig serviced. Fuctioned remote choke. Picked up 5-228mm drill collars. Displaced casing. Pressure tested hydril to 1000 kPa. Held BOP drill. Drilled out cement and shoe.

Under shoe at 12:00 hours 1999.04.11.
Drilled 444.5mm hole with top drive from 185mKB to 209mKB. Surveyed at 207mKB. Drilled 444.5mm hole from 209mKB to 221mKB to 24:00 hours 1999.04.12.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/11
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 21
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -10 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 185.00 m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 185.00 m	8:00 a.m. OPERATION: Inspecting drill collars.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 87404 CUMULATIVE COST: $ 4977778

BHA

1 Bit	1 bit sub	2 Drill collar	2 Drill collar
LENGTH: 37.61 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:

TOTAL ROTATING HOURS: 217.75

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 381 THREAD: H90 NO. IN HOLE: 2

279 H90 6

228 H90 6

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2A	444.5	Smith	NB 3915	3JS	22.0	22.0	20.0	185		-185				–									
										0				–									
										0				–									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFL	MFO	°C IN/OUT
36	1055/1055	9.8			11/ 4.0	3.0/5.0				40			250	20			/
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
10 HR IN 1800 kg/m3 OUT 1060 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254			Emsco	152	254				0.0	0.0	0.0	0.00

SURVEYS

AZIMUTH	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS	3.00	SAFETY MTG	
RIG SERV		CIRCULATE	
COND MUD		TRIPPING	
SURVEYING		RUN CSG	
REAMING		CEMENTING	
CLN TO BTM		W.O.C.	
REPAIRS		W.O.T.	
PU/LD PIPE		CLN PUMPS	
W.N.U. BOP	14.00	CSG BOWL	7.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite
Gel
Drispac
Desco
Cellophane
Soda Ash
Mica
Barite
Walnut
Kelzan
Prima Seal
Sawdust

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.10 @ 00:00 Hours:

Cut off conductor barrel. Welded flange on 508mm casing. Nippled up diverter. Hooked up kill line, hydraulic choke, degasser lines, and flare lines. Rebuilt flow tee. Rigged in manifold. Made up bit. Ran in hole inspecting drill collars to 24:00 Hours 1999.04.10.

Note: Inspecting drill collars on the way in the hole.

SUPERVISOR: B.Shudra D Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra
PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

DATE: 99/04/08 RPT #: 1
AFE #: A983003 DFS:
CEMENT JOB ID (**): P
STRING IDENTIFIER (*): C

(*) STRING IDENTIFIERS
C = Conductor
S = Surface
I = Intermediate
P = Production
L = Liner
(**) JOB IDENTIFIERS
P = Primary S = Squeeze

Summary

	CEMENT INTERVAL		ANNULAR VOLUME (m3)	
1st STAGE	0.0 m KB	185.0 m KB	CALIPER	
2nd STAGE	m KB	m KB	GAUGE	25.80
3rd STAGE	m KB	m KB	SLURRY (actual)	30.40

Job Details

HOLE SIZE: 660.00 mm
CASING O.D.: 508.00 mm
SHOE DEPTH: 185.00 m KB
MAX. RECORDED BHT: deg C

(***) JOB TYPES
1 = Conventional
2 = Foam

JOB TYPE (***): 1
PROPOSED CEMENT TOP: 0.00 m KB
MAXIMUM DEVIATION: 1.00 deg @ 181.00 m KB

Comments

Pumped 30.4 m3 of 0-1-0 "G" +1% CaCl2 through stinger string. Released plug and displaced with 1.7 m3 water. Plug did not bump. After 1.5 hours well started flowing. Rigged up and pumped 9.1 m3 quick cement down annulus. Annulus held 0.75 hours and started to flow. Rigged up and pumped 5.2 m3 quick cement down annulus with well shut in. Left well shut in 2 hours and annulas held.

Mud Data (prior to cementing)

TYPE: Gel Chem
DENSITY: 1810.00 kg/m3
VISCOSITY: 100.00 sec/l
YIELD POINT: 24.00 Pa
WATER LOSS: 11.30 ml/30 min
P. V. 39.00 mPa - sec
GELS 18.00 / 37.00 Pa

Plug Type

TOP:
BOTTOM: Rubber
OTHER:

Cement Head

TYPE: Plug loading

Pipe Movement

WHILE:	CONDITIONING	CEMENTING
TYPE	Worked	
STROKE (m)	14.0	
RATE (stks/min)	2.0	

Stage Tools

TYPE	
DEPTH (m KB)	

Mix Water

400 BBL fresh water tank

Services & Equipment

CEMENT COMPANY: Sanjel
REPRESENTATIVE: Dale Dillabaugh
EQUIPMENT: Twin

STAGE ONE

A. Cement Blend Description

	CEMENT TYPE	ADDITIVES	PREFLUSH TYPE	PREFLUSH VOL (m3)
SCAVENGER			Sepp Water	2.00
FILL				
TAIL	0-1-0 "G"	1% CaCl2		
OTHER	Quick Set			

B. Cement Data

	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t)	MIX WATER TEMP (deg C)
SCAVENGER	-									
FILL	-									
TAIL	0.0 - 185.0	25.80	18	30.44	40.00	0.760	1901.00	360	0.440	
OTHER	0.0 - 70.0	13.90		13.90	16.00	0.870	1740.00	7	0.440	

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61
LOCATION: 300-N61-6040-12330-0
SUPERVISOR: Bill Shudra
PHONE #: (600) 700-2629 CALLING CARD #: 454-037-6130-5210

DATE: 99/04/08 RPT #: 1
AFE #: A983003 DFS:
CEMENT JOB ID (**): P
STRING IDENTIFIER (*): C

(*) STRING IDENTIFIERS
C = Conductor
S = Surface
I = Intermediate
P = Production
L = Liner
(**) JOB IDENTIFIERS
P = Primary S = Squeeze

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	8 / 07 : 30	8 / 09 : 45	2.25	76.8	2.7	6000	
POOH W/ DRILL PIPE	8 / 09 : 45	8 / 13 : 15	3.50				
RIH W/ CASING	8 / 17 : 30	9 / 01 : 45	8.25				
CIRCULATION	9 / 06 : 30	9 / 07 : 40	1.17	76.2	2.7	2000	
CEMENTING – PREFLUSH	9 / 07 : 40	9 / 07 : 42	0.03	2.0	0.8	16000	
– SCAVENGER	/ :	/ :					
– FILL	/ :	/ :					
– TAIL	9 / 07 : 42	9 / 08 : 24	0.70	30.4	0.8	4500	
– OTHER	9 / 17 : 45	9 / 18 : 15	0.50				
RLSE TOP PLUG & PO LINES	9 / 08 : 26	/ :	15.57				
DISPLACEMENT	9 / 08 : 26	9 / 08 : 28	0.03	1.7	0.5	2500	
BUMP PLUG & BLEED OFF	/ :	/ :					
CEMENT RETURNS	TYPE: Tail		VOLUME: 7.00 m3				
FLOAT HELD	YES [X] NO [ ]						

STAGE TWO

A. Cement Blend Description

	CEMENT TYPE	ADDITIVES	PREFLUSH TYPE	PREFLUSH VOL (m3)
SCAVENGER				
FILL				
TAIL				
OTHER				

B. Cement Data

	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t)	MIX WATER TEMP (deg C)
SCAVENGER	–									
FILL	–									
TAIL	–									
OTHER	–									

C. Record of Operations

OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa) MAX.	PRESSURE (kPa) MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	/ :	/ :					
CIRCULATION	/ :	/ :					
CEMENTING – PREFLUSH	/ :	/ :					
– SCAVENGER	/ :	/ :					
– FILL	/ :	/ :					
– TAIL	/ :	/ :					
– OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	/ :	/ :					
DISPLACEMENT	/ :	/ :					
BUMP PLUG & BLEED OFF	/ :	/ :					
CEMENT RETURNS	TYPE:		VOLUME:	m3			
FLOAT HELD	YES [ ] NO [ ]						

PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	DATE: 99/04/04
LOCATION: 300-N61-6040-12330-0	G.L. ELEVATION: 604.00 m
	K.B. ELEVATION: 610.70 m
SURFACE (X) INTERMEDIATE ( ) PRODUCTION ( )	KB TO GROUND: 6.70 m

SIZE: 508.00 mm	WEIGHT: 139 kg/m	GRADE: K-55
MAKE:	THREAD: BT&C	CONDITION: New

FLOAT/GUIDE SHOE - MAKE: Float Import | FLOAT COLLAR - MAKE:

HANGER - TYPE:

RAN: 15 jts. 508.00 mm OD CASING SET @ 185.00 m (by pipe tally)

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)
Float Shoe	0.80	185.00			

CASING BOWL

SIZE:	X	mm
SERIAL #:		
TYPE:		
API:		kPa

CENTRALIZERS

NO.:	8
INTERVALS:	178.00 - 34.00
MAKE:	Import Tool
TYPE:	Bow spring

CASING HANGER

SIZE:	X	mm
MAKE:		
TYPE:		
API:		kPa

SCRATCHERS

NO.:	
INTERVALS:	-
MAKE:	
TYPE:	

RECIPROCATED/ROTATE CASING IN	14.00 m/rpm	STROKES/RPM	60	mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN	0.00 m/rpm	STROKES/RPM		mins. WHILE CEMENTING

SURPLUS:

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

Circulating pressure 2000 kPa at 100 SPM X 2. Vis 100 S/L, weight 1810 kg/m3, PH 9.7.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CCARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST ET AL FLETT N-61 | DATE: 99/04/04

LOCATION: 300-N61-6040-12330-0

SUPERVISOR: Bill Shudra | PHONE #: (600) 700-2629 | CCARD #: 454-037-6130-5210

SIZE: 508.00mm WEIGHT: 139 kg/m THREAD: BT&C GRADE: K-55 MAKE:

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
1	13.24		31			61			91			121		
2	12.83		32			62			92			122		
3	12.93		33			63			93			123		
4	11.33		34			64			94			124		
5	10.67		35			65			95			125		
6	12.92		36			66			96			126		
7	12.61		37			67			97			127		
8	12.96		38			68			98			128		
9	12.23		39			69			99			129		
10	12.11		40			70			100			130		
TOTAL	123.83		TOTAL			TOTAL			TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
11	12.76		41			71			101			131		
12	12.04		42			72			102			132		
13	11.59		43			73			103			133		
14	11.64		44			74			104			134		
15	12.53		45			75			105			135		
16	12.56	1	46			76			106			136		
17			47			77			107			137		
18			48			78			108			138		
19			49			79			109			139		
20			50			80			110			140		
TOTAL	73.12		TOTAL			TOTAL			TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
21			51			81			111			141		
22			52			82			112			142		
23			53			83			113			143		
24			54			84			114			144		
25			55			85			115			145		
26			56			86			116			146		
27			57			87			117			147		
28			58			88			118			148		
29			59			89			119			149		
30			60			90			120			150		
TOTAL			TOTAL			TOTAL			TOTAL			TOTAL		

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH
1- 10	123.83	51- 60		101-110	
11- 20	73.12	61- 70		111-120	
21- 30		71- 80		121-130	
31- 40		81- 90		131-140	
41- 50		91-100		141-150	
				TOTAL	196.95

JTS.	LENGTH	
		Brought Forward
16	196.95	Page Total
16	196.95	Total on Location
1	12.56	Total Left Out (incl. LJ)
15	184.39	Total Perm. in Hole

REMARKS

CD 06/97 * 1 = Left Out 2 = Damaged

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/04/10
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 20
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear. TEMP: -8 °C | FINAL TD: m FORMATION:
Midnight DEPTH: 185.00 m PROGRESS: 0.00 m | PBTD: m FORMATION:
8:00 a.m. DEPTH: 185.00 m 8:00 a.m. OPERATION: Nipple up Annular.

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 608732 CUMULATIVE COST: $ 4890374

BHA

1 Stinger 8 Heav weight 12 Drill pipe 2 Pup joints

LENGTH: 184.55 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 217.75

WT. ON BIT: 18000 daN ROTARY RPM: 35-50 STRING WT.: 53000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pf/Mo	°C IN/OUT
100	1810/1800	9.8	11.3	2.0	39/ 24.0	18./37.				85			250	100	0.5	2.1	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco.	152	254			Emsco	152	254			5600	0.0	0.0		0.00

SURVEYS

	AZIMUTH	
° @		m
° @		m
° @		m
° @		m
° @		m
° @		m
° @		m
° @		m
° @		m
° @		m

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS	2.75	SAFETY MTG	0.25
RIG SERV	0.50	CIRCULATE	3.00
COND MUD		TRIPPING	1.50
SURVEYING		RUN CSG	0.75
REAMING		CEMENTING	4.25
CLN TO BTM		W.O.C.	3.50
REPAIRS		W.O.T.	
PU/LD PIPE	4.50	CLN PUMPS	
W.N.U. BOP	3.00		

TOTAL HOURS: 24.00

MUD ADDITIVES

Lignite
Gel
Drispac
Desco
Cellophane
Soda Ash
Mica
Barite
Walnut
Kelzan
Prima Seal
Sawdust

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.09 @ 00:00 HOURS.
Finished running 508mm conductor casing. Circulated casing. Laid down power tongs. Tore out and laid down truck. Rigged to run tag in stinger. Circulated through tag in stinger. Rigged to and cemented conductor casing with 40 tonnes 0:1:0 Class "G" plus 1% CaCl2. Displaced plug with 1.4m3 water. Plug down at 08:40 hours 1999.04.09. Float held OK. 4m3 good cement returns. Waited on cement. Well started to flow. Shut in with Hydril. Rigged to and cemented through annulus with 10.5 tonnes Quick Set. Finished cementing at 16:00 hours 199.04.09. Well started to flow slowly. Shut in on Hydril. Rigged to and cemented down annulus. Cemented with 6 tonnes

SUPERVISOR: B.Shudra D Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/04/10
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 20 DEPTH: 185.00 m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear. TEMP: -8 °C
8:00 a.m. OPERATION: Nipple up Annular.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Quick Set at 1700kg/m3. Shut in well. Held 28 psi back pressure on annulus for 2.75 hours. No flow. Started to nippled down Hydril. Nippling down Hydril to 24:00 hours 1999.04.09.
Note: 11 joints drill pipe and 6 joints heavy weight full of cement after pulling out of stinger.

REPORTED BY: B.Shudra D Solberg PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/09
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 19
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Light snow	TEMP: - 10 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 185.00 m	PROGRESS: 3.50 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 185.00 m	8:00 a.m. OPERATION: Cementing 508mm conductor casing.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 43059 CUMULATIVE COST: $ 4281642

BHA

1	Bit	1	Bit sub	1	Drill Collar	1	String Stab	1	Drill Collar
1	String Stab	1	Shock sub	1	Shock Sub	1	String stab	6	Drill Collar
1	XO	3	Drill Collar	1	X.O	3	Drill Collar	1	XO sub

LENGTH: 146.40 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 217.75

WT. ON BIT: 18000 daN ROTARY RPM: 35-50 STRING WT.: 53000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2

270 H90 6

228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	1	O	D	L	B	G	O	R
7ARR	660.0	Smith	KS7075	2JS	25.0	25.0	25.0	153	185	32			35.25	10-22	35	3	7	FC	A	3	I	BT	TD
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
97	1810/1800	9.8	11.4	2.0	37/ 23.0	17./36.				85			250	100	0.5	2.1	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.24	Emsco	152	254	100	1.24	5600	7.5	10.9		0.00

SURVEYS

	AZIMUTH
1.00 ° @ 181.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS		SAFETY MTG	0.50
RIG SERV	0.50	CIRCULATE	3.25
COND MUD		TRIPPING	5.00
SURVEYING	0.25	RUN CSG	10.00
REAMING	4.50		
CLN TO BTM			
REPAIRS		W.O.T.	
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite
Gel
Drispac
Desco
Cellophane
Soda Ash
Mica
Barite
Walnut
Kelzan
Prima Seal
Sawdust

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.08 @ 00:00 Hours:
Reamed 444mm hole to 660mm from 181.5mKB to 185mKB. Circulated and conditoned hole. Surveyed at 181mKB. Held rig service. Wiper tripped to 75mKB. Flow checked. Picked up 6 singles of 127mm drillpipe and stood in derrick. Ran in hole to 185mKB. No fill. Circulated and conditioned hole. Tripped out to run 508mm conductor string. Laid down reamer and shock sub. Rigged to run conductor string. Held safety meeting with power tong and lay down operators. Ran 15 joints 508mm, 138.87 kg/m, K-55, BT&C conductor with tag in float shoe, total length 185.19m, to 24:00 hours 1999.04.08.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

ACTION; FELL

ACCIDENT/INCIDENT REPORT

Rig Number: 58 | LSD: Canadian Forest NW | Date: March 31/99 | Time: 15:20 AM PM

☐ Mobile equipment ☑ Property damage ☐ Fire ☐ Personnel
Location → ☑ Rig ☐ Camp ☐ Road ☐ Lease
☐ Other
☐ Lost time ☐ Medical aid ☐ First aid

Name of injured:	Age:	Date of birth:
Marital status:	S.I.N.:	
Position:	Experience:	
Type of injury:		
Method of transportation to medical facility:		
Accompanied by:		
Doctor's name:	Hospital:	
Rig Manager:	Driller on tour:	

CREW MEMBERS (INDICATE WITNESS TO ACCIDENT/INCIDENT)

1 Allan Lickach	4 Adam Murray
2 Ned Melnyk	5 Moise Punch
3 Mike Guerin	6 Mark Vital

How accident/incident occurred (give relevant injury and treatment details):

Crew was taking spider bushing off rotary table. They pulled the pin, opended it up and lifted it off. The pin was attached to the spider by a safety chain welded on. The safety chain broke at the weld and the pin dropped down the hole

Immediate causes: Human Error - Should have put the pin back in the spider after opening up.

Basic causes: Equip. Failure - Safety chain broke. should not have safety chain's - cable's only.

Preventive action: Installed a safety cable on to pin. Held documented safety meeting with Drilling Foreman and Crews on procedure working around hole centre with the spider and other tools

☑ Preventable ☐ Non-preventable

Frequency potential ☐ Frequent ☐ Occasional ☐ Rare | Severity Potential ☐ Major ☐ Serious ☐ Minor

Investigating Supervisor: Dave Miller	Signature:	Date:
	Repair costs	
	Down time	
	Equipment damage	
	Total	
	Report taken by:	

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/08
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 18
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Light snow, Windy,	TEMP: -4 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 181.50 m	PROGRESS: -3.50 m		PBTD: m FORMATION:
6:00 a.m. DEPTH: 185.00 m	6:00 a.m. OPERATION: Wiper trip prior running 508mm conductor.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 54274 CUMULATIVE COST: $ 4238583

BHA

1	Bit	1	Bit sub	1	Drill Collar	1	String Stab	1	Drill Collar
1	String Stab	1	Shock sub	1	Shock Sub	1	String stab	6	Drill Collar
1	XO	3	Drill Collar	1	X.O	3	Drill Collar	1	XO sub

LENGTH: 146.40 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 213.25

WT. ON BIT: 18000 daN ROTARY RPM: 35-50 STRING WT.: 53000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
7ARR	660.0	Smith	KS7075	2JS	25.0	25.0	25.0	153		28			30.75	10-22	35								
										0				-									
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	MBT cc/10mls	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
97	1810/1800	9.8	11.4	2.0	37/ 23.0	17./36.				85			250	100	0.5	2.1	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
Emsco	152	254	100	1.24	Emsco	152	254	100	1.24	5600	7.5	10.9	28.0	32.57

SURVEYS

	AZIMUTH
0.75 ° @ 164.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING		PRESS TEST	
HNDL TOOLS		SAFETY MTG	
RIG SERV	0.25	CIRCULATE	
COND MUD	0.25	TRIPPING	
SURVEYING	0.25		
REAMING	23.00		
CLN TO BTM			
REPAIRS	0.25	W.O.T.	
		CLN PUMPS	

TOTAL HOURS: 24.00

MUD ADDITIVES

Lignite	
Gel	8
Drispac	
Desco	
Cellophane	
Soda Ash	8
Mica	
Barite	336
Walnut	
Kelzan	1
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.07 @ 00:00 Hours:
Reamed 444.5mm pilot hole to 660mm from 159mKB to 166mKB. Circulated and surveyed at 164mKB, 0.75 degrees. Reamed from 166mKB to 176mKB. Circulated and repaired suction line on #2 charge pump. Reamed from 176m to 181.5mKB to 24:00 hours 1999.04.07.

Note #1: Hole and connections are good.
#2: Reaming rough in spots.
#3: Conductor setting depth will be 185.2mKB.
#4: All services notified for the cement job.

SUPERVISOR: B. Shudra/D. Solberg PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/07
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 17
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, Snow	TEMP: -10 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 185.00 m	PROGRESS: 10.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 165.00 m	8:00 a.m. OPERATION: Reaming 444.5mm hole to 660mm.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 62826 CUMULATIVE COST: $ 4184309

BHA

1	Bit	1	Bit sub	1	Drill Collar	1	String Stab	1	Drill Collar
1	String Stab	1	Shock sub	1	Shock Sub	1	String stab	6	Drill Collar
1	XO	3	Drill Collar	1	X.O	3	Drill Collar	1	XO sub

LENGTH: 146.40 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 190.25

WT. ON BIT: 18000 daN ROTARY RPM: 38-45 STRING WT.: 53000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
6A	444.5	RBI	PR-243	C5	25.0	25.0	25.0	153	185	32	0.9	37.00		26-31	45	5	5	WT	A	E	I	WT	TD
7ARR	660.0	Smith	KS7075	2JS	25.0	25.0	25.0	153		6			7.50	8-18	35								
										0				-									

LAST PIPE TALLY: 186.58 BOARD: 185 CORRECTION: YES [ ] NO [x]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mpf	MFO	°C IN/OUT
82	1775/1775	9.7	12.1	2.0	38/ 22.0	18./36.				80			250	100	0.5	2.1	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.24	Emsco	152	254	100	1.24	5000	7.5	10.9	28.0	32.03

SURVEYS

	AZIMUTH
0.75 ° @ 181.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	9.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD		CIRCULATE	0.25
SURVEYING	0.25	TRIPPING	4.25
REAMING	7.50		
CLN TO BTM	0.25		
REPAIRS	1.00		
		W.O.T.	
		CLN PUMPS	1.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	12
Drispac	
Desco	1
Cellophane	
Soda Ash	7
Mica	
Barite	232
Walnut	
Kelzan	
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.06 @ 00:00 Hours:
Drilled 444.5mm pilot hole, surveying as required, to 185mKB. Tripped out. Made up 660mm bit #7A (RR5A). Ran in hole. Reamed 444.5mm hole to 660mm to depth 159mKB @ 24:00 hours 1999.04.06.

Note #1: Changed out swivel wash pipe and packing, 1.0 hour.
#2: Cleaned out pumps and serviced valves, 1.0 hour.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/06
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 16
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -10 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 175.00 m	PROGRESS: 17.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 183.00 m	8:00 a.m. OPERATION: Drilling 444mm pilot hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 2399827 CUMULATIVE COST: $ 4121483

BHA

1	Bit	1	Bit sub	1	Drill Collar	1	String Stab	1	Drill Collar
1	String Stab	1	Shock sub	1	Shock Sub	1	String stab	6	Drill Collar
1	XO	3	Drill Collar	1	X.O	3	Drill Collar	1	XO sub

LENGTH: 146.40 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 181.00

WT. ON BIT: 30000 daN ROTARY RPM: 45-55 STRING WT.: 54000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2

270 H90 6

228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT 1	O	D	L	B	G	REMARKS O	R
6A	444.5	RBI	PR-243	CS	25.0	25.0	25.0	153		22	0.8	27.75		26-31	45								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
97	1780/1780	9.7	12.1	2.0	41/ 22.0	18./39.				85			250	100	0.4	2.0	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.24	Emsco	152	254	100	1.24	5400	7.5	10.9	28.0	32.11

SURVEYS

	AZIMUTH
0.75 ° @ 164.00 m	
0.50 ° @ 171.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	21.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	1.00	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.50	TRIPPING	
COND MUD			
CLN TO BTM			
REPAIRS			
FISHING		W.O.T.	
		CLN PUMPS	1.25
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	
Drispac	
Desco	1
Cellophane	
Soda Ash	5
Mica	4
Barite	229
Walnut	
Kelzan	1
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be reported below.)

1999.04.05 @ 00:00 Hours:

Drilled 444.5mm pilot hole, surveying as required, to 175mKB at 24:00 hours 1999.04.05.

Note #1: Cleaned cuttings from mud pump and repaired valves for 1.25 hours.

#2: Screened LCM out of mud 167mKB.

Note #3: Diesel Fuel Delivered to N-61: 1,048,653 Litres.

#4: Gas Delivered to N-61: 19,604 Litres.

#5: Daily cost includes Construction cost of $2,330,880

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/05
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 15
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -10 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 158.00 m	PROGRESS: 8.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 163.00 m	8:00 a.m. OPERATION: Drilling 444mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 105240 CUMULATIVE COST: $ 1721656

BHA

1	Bit	1	Bit sub	1	Drill Collar	1	String Stab	1	Drill Collar
1	String Stab	1	Shock sub	1	Shock Sub	1	String stab	6	Drill Collar
1	XO	3	Drill Collar	1	X.O	3	Drill Collar	1	XO sub

LENGTH: 146.40 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 159.75

WT. ON BIT: 26000 daN ROTARY RPM: 48-55 STRING WT.: 54000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
5A	660.0	Smith	KS7075	2JS	25.0	25.0	25.0	137	153	16	0.4	43.50		18-20	40	2	2	WT	H	E	I	WT	PR
6A	444.5	RBI	PR-243	C5	25.0	25.0	25.0	153		5	0.8	6.50		23-27	48								
										0				–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	ALKALINITY Pf/Mf	°C IN/OUT
121	1770/1770	9.7	11.6	2.0	41/ 23.0	18./36.				90			250	100	0.6	2.1	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.24	Emsco	152	254	100	1.24	5400	7.5	10.9	28.0	31.93

SURVEYS

	AZIMUTH
0.50° @ 148.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	16.50	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	4.25
COND MUD	0.25		
CLN TO BTM			
REPAIRS	0.50		
FISHING		W.O.T.	
		CLN PUMPS	1.75
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	
Drispac	
Desco	1
Cellophane	
Soda Ash	7
Mica	
Barite	126
Walnut	
Kelzan	1
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.04 @ 00:00 Hours:
Drilled 660mm hole and surveyed as required to 153mKB.
Tripped for bit. Laid down 660mm bit. Made up and ran in hole with 444.5mm bit, C5. Drilled 444.5mm pilot hole to 158mKB @ 24:00 hours 1999.04.04.

Note: Cleaned cuttings from mud pump and repaired valves for 1.75 hours.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/04
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 14
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 150.00 m	PROGRESS: 8.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 151.50 m	8:00 a.m. OPERATION: Drilling 660 mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 46729 CUMULATIVE COST: $ 1616416

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	Shock Sub
1	String stab	6	Drill Collar	1	XO	3	Drill Collar	1	X.O
3	Drill Collar	1	XO sub	1	Heavy weight				

LENGTH: 151.04 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 143.25

WT. ON BIT: 18000 daN ROTARY RPM: 40-50 STRING WT.: 53000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		374	H90	2
		270	H90	6
		228	H90	3

BITS

BIT NO	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMO	BIT WT daN	BIT RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
					1	2	3																
5A	660.0	Smith	KS7075	2JS	25.0	25.0	25.0	137		13	0.4	33.50		16-18	40								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
149	1825/1825	9.6	11.4	2.0	51/ 26.0	21./48.				90			250	120	0.5	2.1	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.24	Emsco	152	254	100	1.24	4600	7.5	10.9	28.0	32.93

SURVEYS

	AZIMUTH
0.50 ° @ 148.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	24.00	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV		SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING		TRIPPING	
COND MUD			
CLN TO BTM			
REPAIRS			
FISHING		W.O.T.	
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	
Drispac	
Desco	
Cellophane	
Soda Ash	6
Mica	
Barite	135
Walnut	
Kelzan	2
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.03 @ 00:00 Hours.

Drilled 660 mm hole and survey as required from 142mKB to 150mKB at 24:00 hours 1999.04.03.

Note(1) Weight on bit varied from 14,000 - 18,000 daN.
(2) RPM was varied between 35-50.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/03
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 13
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 142.00 m	PROGRESS: 5.50 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 144.00 m	8:00 a.m. OPERATION: Drilling 660 mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 101905 CUMULATIVE COST: $ 1569687

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	Shock Sub
1	String stab	6	Drill Collar	1	XO	3	Drill Collar	1	X.O
3	Drill Collar	1	XO sub	1	Heavy weight				

LENGTH: 151.04 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 119.25

WT. ON BIT: 15 daN ROTARY RPM: 35-40 STRING WT.: 51000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:
		374	H90	2
		270	H90	6
		228	H90	3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WT daN	RPM	I	O	D	L	B	G	O	R
4A	660.0	HW	FH243	R4J	25.0	25.0	25.0	134		3	0.3	11.25		12-15	35	6	6	WT	A	E	I	BT	PR
5A	660.0	Smith	KS7075	ZJS	25.0	25.0	25.0	137		5	0.5	9.50		14-16	30								
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
°132	1840/1840	9.6	13.0	2.0	60/ 23.0	23./61.				90			250	120	0.5	1.6	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.24	Emsco	152	254	100	1.24	4600	7.5	10.9	7.0	2.07

SURVEYS

	AZIMUTH
0.75 ° @ 139.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	13.25	RIG SPUD	
HNDL TOOLS	0.50	PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	3.50
COND MUD	0.25		
CLN TO BTM	3.75		
REPAIRS			
FISHING		W.O.T.	
		CLN PUMPS	2.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	1
Gel	
Drispac	
Desco	1
Cellophane	
Soda Ash	4
Mica	
Barite	40
Walnut	
Kelzan	
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.02 @ 00:00 HOURS:
Drilled 660 mm hole to 137.5 mKB.
Tripped for bit #5.
Washed to bottom from 115 mKB to 137.5 mKB. 8 m of fill.
Drilled 660 mm hole and survey as required to 142 mKB
to 24:00 hours 1999.04.02.

Note: Cleaned pump suction line and repaired pump valves.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/04/02
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 12
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -3 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 136.50 m	PROGRESS: 0.50 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 137.50 m	8:00 a.m. OPERATION: Drilling 660 mm hole.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 55765 CUMULATIVE COST: $ 1467782

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	Shock Sub
1	String stab	6	Drill Collar	1	XO	3	Drill Collar	1	X.O
2	Drill Collar	1	XO sub	1	Heavy weight				

LENGTH: 141.58 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 106.00

WT. ON BIT: 14 daN ROTARY RPM: 80-90 STRING WT.: 51000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
4A	660.0	HW	FH243	R4J	25.0	25.0	25.0	134		2	0.3	7.50		12-15	35								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MFO	°C IN/OUT
136	1790/1790	9.6	11.8	2.0	50/ 25.0	20./46.				95			250	140	0.5	1.7	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.24	Emsco	152	254	100	1.24	4400	7.5	10.9	28.0	32.29

SURVEYS

	AZIMUTH
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	

TIME BREAKDOWN

DRILLING	7.50	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD	6.00	CIRCULATE	
SURVEYING		TRIPPING	6.00
COND MUD			
CLN TO BTM			
REPAIRS			
FISHING	1.50	W.O.T.	2.50
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	2
Gel	
Drispac	
Desco	1
Cellophane	
Soda Ash	2
Mica	
Barite	468
Walnut	
Kelzan	1
Prima Seal	
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.04.01 @00:00 Hours:

Circulated and increased mud density to 1780 - 1800 kg/m3. Tripped out of hole. Waited on magnet 2.5 hours. Tripped in hole with magnet. Circulated and increased mud density to 1765 - 1800 kg/m3. Picked up spider pin and hoisted out of hole. Laid down fishing tools. Tripped in hole with bit #4. Drilled 660 mm hole. Surveyed as required. Drilled 660 mm hole to 136.5 mKB to 24:00 hours 1999.04.01.

Note: Depth correction made, 1.5 m.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/04/01
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 11
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863	
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.	
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.	
		WELL STATUS:	
WEATHER: Clear	TEMP: -10 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 136.00 m	PROGRESS: 1.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 136.00 m	8:00 a.m. OPERATION: Fishing for spider pin.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 61765 CUMULATIVE COST: $ 1412017

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	String stab
6	Drill Collar	1	XO	3	Drill Collar	1	X.O	2	Drill Collar
1	XO sub	1	Heavy weight						

LENGTH: 137.73 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 98.50

WT. ON BIT: 17000 daN ROTARY RPM: 80-90 STRING WT.: 51000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	374	THREAD:	H90	NO. IN HOLE: 2
			270		H90	6
			228		H90	3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
3ARR	660.0	H.W	KM110	R-3	25.0	25.0	25.0	128		7	0.4	18.25		10-12	85	7	7	WT	A	F	I	WT	PR
4A	660.0	HW	FH243	R4J	25.0	25.0	25.0	136		0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
132	1800/1800	9.6	13.0	2.0	52/ 26.0	19./46.				95			250	120	0.9	2.1	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	3200	8.4	12.1	7.8	2.80

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	4.25	RIG SPUD	
HNDL TOOLS	5.00	PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	7.25
COND MUD	2.25		
CLN TO BTM			
REPAIRS	0.50		
		W.O.T.	4.25
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	
Gel	15
Drispac	
Desco	
Cellophane	1
Soda Ash	2
Mica	1
Barite	275
Walnut	1
Kelzan	
Prima Seal	1
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.31 @ 00:00 Hours:
Drilled 660mm hole and surveyed as required to 136mKB. Mud density while drilling 1800 kg/m3. Pumped 7m3 pill of 1850 kg/m3 density. Tripped for bit #4. Worked on top drive, problems with tilt and elevators. Broke tong jaw while breaking bit. Finally had to heat bit sub in order to break bit. Welder had to rebuild bit breaker as bit was stuck in the bit breaker and had to be cut out. Pin for spider was dropped down hole as the safety chain broke off the spider. Made up 444.5mm bit on 178mm DC, picked up 8 HWDP and 6 127mm DP for fishing string. Tripped in hole. Circulated and conditioned mud to 24:00 hours 1999.03.31.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/04/01
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 11 DEPTH: 136.00 m PROGRESS: 1.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -10 °C
8:00 a.m. OPERATION: Fishing for spider pin.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note: Spider pin is 9" long with 3" OD.

REPORTED BY: B. Shudra/J. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/03/31
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 10
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: -16 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 135.00 m | PROGRESS: 7.00 m | PBTD: m | FORMATION:
6:00 a.m. DEPTH: 136.00 m | 6:00 a.m. OPERATION: Tripping for bit.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 76879 | CUMULATIVE COST: $ 1350252

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	String stab
6	Drill Collar	1	XO	3	Drill Collar	1	X.O	2	Drill Collar
1	XO sub	1	Heavy weight						

LENGTH: 137.73 m | WT. BELOW JARS: daN | JAR HRS: | JAR SERIAL #:

TOTAL ROTATING HOURS: 94.25

WT. ON BIT: 12000 daN | ROTARY RPM: 80-90 | STRING WT.: 51000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	374	THREAD: H90	NO. IN HOLE: 2
			270	H90	6
			228	H90	3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. L	O	D	L	B	G	REMARKS O	R
3ARR	660.0	H.W	KM110	R-3	25.0	25.0	25.0	128		7	0.4	18.25		10-12	85								
										0				-									
										0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
130	1400/1420	9.0	12.0	2.0	50/ 25.0	20./45.				100			250	120	0.8	2.4	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	3200	8.4	12.1	31.1	35.07

SURVEYS

			AZIMUTH
0.75	° @	134.00 m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	
	° @	m	

TIME BREAKDOWN

DRILLING	18.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING		TRIPPING	0.75
COND MUD	4.50		
CLN TO BTM			
REPAIRS			
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	6
Gel	
Drispac	
Desco	3
Cellophane	4
Soda Ash	19
Mica	4
Barite	1076
Walnut	4
Kelzan	1
Prima Seal	18
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.30 @ 00:00 Hours:
Tripped in hole with bit #3A(RR1). Had 5m3 influx of water on trip. Density of mud dropped on trip from 1700 kg/m3 to 1480 kg/m3. Circulated and mixed barite. Increased density to 1750 kg/m3. Drilled 660mm hole to a depth 135mKB @ 24:00 hours 1999.03.30.

Note #1: No kicks, water flows while drilling or lost circulation zones experienced since 121mKB.
#2: Water influx while tripping bit #2A due to swabbing caused by inability to circulate, created by plugged jets.

SUPERVISOR: B. Shudra/J. Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/03/30
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 9
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast, snow showers	TEMP: -15 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 128.00 m	PROGRESS: 7.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 130.00 m	8:00 a.m. OPERATION: Drilling 660mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 100567 CUMULATIVE COST: $ 1273373

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	String stab
6	Drill Collar	1	XO	3	Drill Collar	1	X.O	2	Drill Collar
1	XO sub	1	Heavy weight						

LENGTH: 137.73 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 76.00

WT. ON BIT: 12000 daN ROTARY RPM: 80-90 STRING WT.: 50000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.: 374	THREAD: H90	NO. IN HOLE: 2
		270	H90	6
		228	H90	3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70	128	58	0.9	62.00		10-12	85	2	7	BT	H	E	I	WT	PR
3ARR	660.0	H.W	KM110	R-3	25.0	25.0	25.0	128		0		0.00		10-12									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
120	1790/1790	9.0	9.0	2.0	50/ 28.0	20./45.				90			250	160	0.7	2.1	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	5400	8.4	12.1	31.1	44.51

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	12.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING		TRIPPING	5.50
COND MUD	2.00		
CLN TO BTM			
REPAIRS	1.75		
		CLN PUMPS	2.00
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	4
Gel	
Drispac	
Desco	4
Cellophane	44
Soda Ash	
Mica	
Barite	158
Walnut	44
Kelzan	
Prima Seal	15
Sawdust	60

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.29 @ 00:00 Hours:
Mixed loss circulation material. Drilled 660mm hole and surveyed as required to 128mKB. Worked on Top Drive. Changed hydraulic mud saver valve. Cleaned out mud pumps. Repaired valves damaged with LCM. Attempted to break circulation. Jets were plugged. Tripped for plugged jets to 24:00 hours 1999.03.29.

Note #1: Well started flowing while out of hole.
#2: Buttons broken on outside rows on all cones (bit #2A).

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 96/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/03/29
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 8
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -18 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 121.00 m	PROGRESS: 10.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 125.00 m	8:00 a.m. OPERATION: Drilling 660mm hole.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 124029 CUMULATIVE COST: $ 1172806

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	Shock sub	1	String stab
6	Drill Collar	1	XO	3	Drill Collar	1	X.O	1	Drill Collar
1	XO sub	1	Heavy weight						

LENGTH: 128.18 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 63.75

WT. ON BIT: 12000 daN ROTARY RPM: 80-90 STRING WT.: 50000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		51	1.0	49.75		10-12	85								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY PM	PF/MF	°C IN/OUT
115	1750/1750	9.6	12.0	2.0	50/ 25.0	20./40.				90			250	160	0.7	2.3	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	4500	8.4	12.1	54.0	131.16

SURVEYS

		AZIMUTH
1.00 °	@ 118.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	10.75	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	
COND MUD	12.50		
CLN TO BTM			
REPAIRS			
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Lignite	5
Gel	22
Drispac	3
Desco	
Cellophane	25
Soda Ash	4
Mica	25
Barite	2615
Walnut	10
Kelzan	4
Prima Seal	10
Sawdust	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.28 @ 00:00 Hours:
Mixed barite and increased density to 1610 kg/m3. Flow checked. Well was dead. Cleaned out sand traps with vacuum truck. Worked on both rig mud pumps. Repaired valves and cleaned out pumps. For 105 minutes the well remained dead. It then began to flow. Mixed barite and increased density to 1710 kg/m3. Flow checked. Well was dead. Worked on rig pumps, cleaned sand trap & settling tank. Drilled 660mm hole and surveyed as required to 121mKB. Lost 15m3 fluid to formation. Density while drilling 1780 kg/m3. Stopped drilling. Mixed loss circulation material to 24:00 hours 1999.03.28.

SUPERVISOR: B. Shudra/J. Brezel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/07

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/03/28
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 7
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m		SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m		RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Overcast ,Snow Showers	TEMP: -12 °C	FINAL TD: m	FORMATION:
Midnight DEPTH: 111.00 m	PROGRESS: 11.00 m	PBTD: m	FORMATION:
8:00 a.m. DEPTH: 111.00 m	8:00 a.m. OPERATION: Mixing Barite to control well. Well currently static.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 120481 CUMULATIVE COST: $ 1048777

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	6	Drill Collar	1	XO	3	Drill Collar	1	XO sub
1	XO sub	1	Heavy weight						

LENGTH: 119.66 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 53.00

WT. ON BIT: 16000 daN ROTARY RPM: 80-90 STRING WT.: 50000 daN

DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	374	THREAD: H90	NO. IN HOLE: 2
			270	H90	6
			228	H90	3

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH IN	DEPTH OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	HOURS ON BIT RMD	BIT WT daN	BIT RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
					1	2	3																
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		41	1.1	39.00		10-15	85								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	ALKALINITY MFO	°C IN/OUT
100	1600/1600	9.6	13.0	2.0	40/ 25.0	20./40.				85			250	120	1.0	3.1	/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	3600	8.4	12.1	54.0	119.92

SURVEYS

		AZIMUTH
0.50 °	@ 97.00 m	
1.50 °	@ 106.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	7.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.75	SAFETY MTG	
COND MUD	15.50	CIRCULATE	
SURVEYING	0.50	TRIPPING	
COND MUD			
CLN TO BTM			
REPAIRS			
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	
Gel	7
Alcomer110	
Desco	3
Cellophane	7
Soda Ash	2
Defoamer	
Barite	552
Sapp	3
Kelzan	
Prima Seal	4
Sawdust	20

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.27 @ 00:00 hours

Drilled 660 mm hole and surveyed to a depth of 103mKB. Density of drilling fluid:1345 kg/m3. Well started flowing. Had a 4 m3 influx of fluid. Mixed barite and increased density to 1420 kg/m3. Flow checked.Well was dead. Mixed barite and increased density to 1440 kg/m3.

Drilled 660 mm hole and surveyed to a depth 111 mKB. Density of drilling fluid 1420 to 1440 kg/m3.Well started to flow.Had a 7 m3 influx of fluid.Mixed barite and increased density to 1520 kg/m3. Flow checked. Well was still flowing. Mixed barite and increased density of drilling mud to 24:00 hours 1999.03.27.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/27
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 6
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Overcast,Snow Showers	TEMP: -8 °C	FINAL TD: m FORMATION:
Midnight DEPTH: 100.00 m	PROGRESS: 13.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 103.00 m	8:00 a.m. OPERATION: Mixing Barite to control well.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 142280 CUMULATIVE COST: $ 928296

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	6	Drill Collar	1	XO	1	Drill Collar	1	XO sub
1	XO sub	1	Heavy weight						

LENGTH: 101.76 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 45.75

WT. ON BIT: 10000 daN ROTARY RPM: 80-90 STRING WT.: 47000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2
270 H90 6
228 H90 1

BITS

BIT NO	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		30	0.9	31.75		8-10	85								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	W.L. cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
85	1300/1300	10.5	14.0	2.0	20/ 20.0	15./35.				85			200	180	0.1	0.5	/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	3600	8.4	12.1	54.0	97.43

SURVEYS

AZIMUTH

°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING	16.75	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING		TRIPPING	
COND MUD	7.00		
CLN TO BTM			
REPAIRS			
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	
Gel	25
Alcomer110	
Desco	
Cellophane	33
Soda Ash	17
Defoamer	
Barite	330
Sod-Sulph	
Kelzan	
Prima Seal	12
Sawdust	635

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.26 @00:00 hours.
Mixed loss circulation material and barite, built volume. Drilled 660 mm hole to 87.75 mKB, Lost 10 m3 of drilling mud in 35 minutes. Mixed loss circulation material and built volume. Drilled 660 mm hole to 100 mKB at 24:00 hours 1999.03.26.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/03/26
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 5
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -2 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 87.00 m	PROGRESS: 3.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: 87.75 m	8:00 a.m. OPERATION: Mixing LCM to control fluid loss to formation.		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 84795 CUMULATIVE COST: $ 786016

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	6	Drill Collar	1	XO sub	1	XO sub	1	Heavy weight

LENGTH: 91.41 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 29.00

WT. ON BIT: 12000 daN ROTARY RPM: 80-110 STRING WT.: 45000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2

270 H90 4

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. T	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		17	1.1	15.00		8-10	35								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
85	1300/1300	10.5	14.0	2.0	20/ 20.0	15 /35.				85			200	180	0.1	0.5	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DEGANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	GPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	3600	8.4	12.1	54.0	97.43

SURVEYS

AZIMUTH

°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m
°	@	m

TIME BREAKDOWN

DRILLING	4.25	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING		TRIPPING	
COND MUD	18.00		
CLN TO BTM	1.00		
REPAIRS	0.50		
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	
Gel	127
Alcomer110	
Desco	
Cellophane	27
Soda Ash	12
Defoamer	2
Barite	1262
Sod-Sulph	
Kelzan	
Prima Seal	22
Sawdust	130

MUD COMMENTS: Lost 45m3 to formation.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.25 @ 00:00 Hours:
Mixed barite and gel, increased mud density to 1345 kg/m3. Flowed 720m3 of clear water off location. Pumped kill mud and stopped water flow. Mixed barite and gel in Zeta pre-mix tank and built volume in surface system, density of 1370 kg/m3. Drilled 660mm hole to 87mKB. Fluid loss to hole 7.5m3/hour. Lost a total of 45m3. Mixed barite, gel and lost circulation material and built volume to 24:00 hours 1999.03.25.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/25
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 4
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:

WEATHER: Overcast Rain TEMP: 2 °C FINAL TD: m FORMATION:

Midnight DEPTH: 84.00 m PROGRESS: 6.00 m PBTD: m FORMATION:

8:00 a.m. DEPTH: 84.00 m 8:00 a.m. OPERATION: Mixing barite to control water flow, density 1345 kg/m3

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 66567 CUMULATIVE COST: $ 701221

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	6	Drill Collar	1	XO sub	1	XO sub	1	Heavy weight

LENGTH: 91.41 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 24.75

WT. ON BIT: 12000 daN ROTARY RPM: 40-80 STRING WT.: 45000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2

270 H90 4

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		14	1.3	10.75		8-10	35								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTOMITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
54	1270/1270	10.5	14.0	2.0	14/ 15.5	2.0/35.			0.065	70			200	100	0.3	0.6	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: F-1000 MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
Emsco.	152	254	100	1.38	Emsco	152	254	100	1.38	2500	8.4	12.1	54.0	95.18

SURVEYS

	AZIMUTH
0.50 ° @ 78.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	4.00	RIG SPUD	
HNDL TOOLS		PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	
COND MUD	17.00		
CLN TO BTM	1.25		
REPAIRS	1.25		
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	
Gel	151
Alcomer110	
Desco	
Cellophane	4
Soda Ash	9
Defoamer	1
Barite	972
Sod-Sulph	
Kelzan	1
Prima Seal	8
Sawdust	75

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.24 @ 00:00 Hours:
Mixed barite and gel, increased mud density to 1250 kg/m3. Flowed 250m3 of clear water off location. Pumped 1250 kg/m3 density mud to mud. Monitored well. Mixed loss circulation pill. Pumped 4-3m3 LCM pills. Pre-mixed mud in Wadeco process tank. Well static. Cleaned to bottom. Drilled 660mm hole to a depth of 84mKB. Ran survey. Well began to flow. Attempted to mix barite on the fly and kill water flow, but flow was to great. Caught drilling mud in surface tanks and diverted clean water flow off location. Mixed barite and gel to increase density to 24:00 hours 1999.03.24.

SUPERVISOR: B. Shudra/J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/03/25
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 4 DEPTH: 84.00 m PROGRESS: 6.00 m CPA NO.: 300N616040123300

WEATHER: Overcast Rain TEMP: 2 °C
8:00 a.m. OPERATION: Mixing barite to control water flow, density 1345 kg/m3

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #1: Experienced drilling break from 83-84mKB. This is where water flow requiring higher mud density was encountered.
#2: Earlier water flows at 74 and 78mKB were contained by 1250 kg/m3 density.

REPORTED BY: B. Shudra/J. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/24
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY: 3
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: °C	FINAL TD: m FORMATION:
Midnight DEPTH: 78.00 m	PROGRESS: 7.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 78.00 m	8:00 a.m. OPERATION: Mixing mud to control water flow.	

AFE #: A983003 **AFE AMT:** $11253700 **DAILY COST:** $ 124362 **CUMULATIVE COST:** $ 634654

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	4	Drill Collar	1	XO sub	1	XO sub	1	Heavy weight

LENGTH: 74.35 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 20.75

WT. ON BIT: 12000 daN ROTARY RPM: 35-45 STRING WT.: 40000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: 374 THREAD: H90 NO. IN HOLE: 2

270 H90 4

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		8	1.2	6.75		8-10	35								
										0				-									
										0				-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MF	MO	°C IN/OUT
63	1220/1220	10.5	15.0	2.0	12/ 16.0	11./20.			0.002	70			250	140	0.3	0.6	/
	/				/	/											/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	2500	8.4	12.1	54.0	91.44

SURVEYS

			AZIMUTH
0.25	@	72.00 m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	
	@	m	

TIME BREAKDOWN

DRILLING	5.25	RIG SPUD	
HNDL TOOLS	0.25	PRESS TEST	
RIG SERV	0.50	SAFETY MTG	
COND MUD		CIRCULATE	
SURVEYING	0.25	TRIPPING	
COND MUD	17.75		
		CLN PUMPS	
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	92
Gel	314
Alcomer110	
Desco	
Corinox	
Soda Ash	19
Drispac	
Barite	421
Sod-Sulph	
Sawdust	20

MUD COMMENTS: Working on mud propertes and density to control water flow.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.23 @ 00:00 Hours:

Drilled 660mm hole and surveyed as required to a depth 76mKB Had drilling break and well began to flow water at a rate of 2m3/minute. Diverter line was opened and 300m3 of water ran off location. Mixed weight material and increased density to 1200 kg/m3. Kill fluid was pumped and well was static. Drilled 660mm hole to 78mKB. Well was losing fluid and then started to flow and make water. Diverter line was opened and flowed 150m3 of water off location. Mixed weight material and pumped a 1185 kg/m3 kill mud. Well was static for 2 hours while mud was being mixed. Well then started to flow. Another 1185 kg/m3 pill was pumped. Well was flowing.

SUPERVISOR: B.Shudra J. Brazel PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/03/24
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: 3 DEPTH: 78.00 m PROGRESS: 7.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: °C
8:00 a.m. OPERATION: Mixing mud to control water flow.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Mixed 1210 kg/m3 pill and pumped it. When weighted mud reached surface, the pump was stopped. Fluid in annulus dropped 2m and was static for 20 minutes. Well began to flow. Mixed mud to 24:00 hours 1999.03.23.

REPORTED BY: B.Shudra J. Brazel PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 | LOCATION: 300-N61-6040-12330-0 | DATE: 99/03/23
U.W.I.: 300-N61-6040-12330-0 | CPA NO.: 300N616040123300 | DAY: 2
OFFICE SUPERVISOR: Mickey Sutherland | LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD. | KB: 610.7 m | KB-GL: 6.7 m | SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E | GL: 604.0 m | KB-CF: m | RIG RELEASE: @ : hrs.
WELL STATUS:

WEATHER: Clear | TEMP: -10 °C | FINAL TD: m | FORMATION:
Midnight DEPTH: 71.00 m | PROGRESS: 32.00 m | PBTD: m | FORMATION:
8:00 a.m. DEPTH: 75.00 m | 8:00 a.m. OPERATION: Mixing barite to control water flow.

AFE #: A983003 | AFE AMT: $11253700 | DAILY COST: $ 102198 | CUMULATIVE COST: $ 510292

BHA

1 Bit	1 Bit sub	2 Drill Collar	1 XO sub	1 Shock sub
1 String stab	4 Drill Collar	1 XO sub	1 XO sub	1 Heavy weight

LENGTH: 74.35 m | WT. BELOW JARS: daN | JAR HRS: | JAR SERIAL #:

TOTAL ROTATING HOURS: 15.50

WT. ON BIT: 12000 daN | ROTARY RPM: 60-135 | STRING WT.: 40000 daN
DRILL PIPE O.D.: | THREAD: | DRILL COLLARS O.D.: 374 | THREAD: H90 | NO. IN HOLE: 2
270 | H90 | 4

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
1A	660.0	Wester	KM110	R-3	22.0	22.0	22.0	31	70	39	2.8	14.00		4-8	40	3	3	WT	A	E	I	WT	PR
2A	660.0	RBI	BJ201	C3JC	17.5	17.5	17.5	70		1	0.7	1.50		8-10	135								
										0				-									

LAST PIPE TALLY: | BOARD: | CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
45	1070/1080	10.5	30.0	2.5	/	/											/
	/				/	/											/

CENTRIFUGE	DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
16 HR IN 1040 kg/m3 OUT 1760 kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
Emsco	152	254	100	1.38	Emsco	152	254	100	1.38	1500	8.4	12.1	54.0	80.57

SURVEYS

	AZIMUTH
0.25 ° @ 46.00 m	
0.50 ° @ 57.00 m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

DRILLING	13.75	RIG SPUD	
HNDL TOOLS	3.00	PRESS TEST	
RIG SERV	0.25	SAFETY MTG	
COND MUD	1.00	CIRCULATE	0.75
SURVEYING	1.00	TRIPPING	3.50
		CLN PUMPS	0.75
		TOTAL HOURS:	24.00

MUD ADDITIVES

Potassium	165
Gel	65
Alcomer110	4
Desco	2
Corinox	5
Soda Ash	1
Drispac	2
Barite	28
Sod-Sulph	1

MUD COMMENTS: Mud is in good condition for drilling Conductor2.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.22 @ 00:00 Hours:
Drilled 660mm hole and surveyed as required to 70mKB.
Tripped out Bit #1A. Ran in Bit #2A. Drilled 660mm hole and surveyed as required to 71mKB at 24:00 hours 1999.03.22.

Note #1: Formation very hard from 58mKB to 71mKB.

Note #2: At approximately 06:00 hours 1999.03.23 at a depth of 74mKB had a 1.0 metre drilling break. Experienced fresh water flow of 2-3m3 water per minute. Mixing barite to 1250 kg/m3 density to control water flow.

SUPERVISOR: B. Shudra/J. Brazel | PHONE #: (600) 700-2629 | CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0		DATE: 99/03/22
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300		DAY: 1
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: 610.7 m	KB-GL: 6.7 m	SPUD DATE: 99/03/21 @ 18:00 hrs.
RIG #: 58E	GL: 604.0 m	KB-CF: m	RIG RELEASE: @ : hrs.
			WELL STATUS:
WEATHER: Clear	TEMP: -6 °C		FINAL TD: m FORMATION:
Midnight DEPTH: 39.00 m	PROGRESS: 39.00 m		PBTD: m FORMATION:
8:00 a.m. DEPTH: m	8:00 a.m. OPERATION: Drilling 660mm Conductor hole		

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 92509 CUMULATIVE COST: $ 408094

BHA

1	Bit	1	Bit sub	2	Drill Collar	1	XO sub	1	Shock sub
1	String stab	1	XO sub	1	XO sub	1	Heavy weight		

LENGTH: 39.86 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 1.75

WT. ON BIT: 4000 daN ROTARY RPM: 60 STRING WT.: 30000 daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT. I	O	D	L	B	G	O	R	REMARKS
1A	660.0	Wester	KM110	R-3	22.0	22.0	22.0	31		8	4.6	1.75		-										
										0				-										
										0				-										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LGNS kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY PM	PF	MF	°C IN/OUT
43	1055/1055	10.5	13.0		/	/												/
	/				/	/												/

CENTRIFUGE HR IN	kg/m3	OUT	kg/m3	DESILTER HR OUT	kg/m3	DESANDER HR OUT	kg/m3	DEGASSER HR OUT	kg/m3	TOTAL MUD DUMPED m3

PUMP

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	152	254	80	1.11	Emsco	152	254	80	1.11		6.7	9.7	32.3	22.77

SURVEYS

		AZIMUTH
0.25 °	@ 37.00 m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	
°	@ m	

TIME BREAKDOWN

DRILLING	1.75	RIG SPUD	11.00
HNDL TOOLS	5.50	PRESS TEST	0.25
RIG SERV	0.25	SAFETY MTG	0.50
COND MUD	1.50	CIRCULATE	1.00
SURVEYING	0.25	TRIPPING	2.00

TOTAL HOURS: 24.00

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.21 @ 00:00 Hours:
Prepared to spud. Nippled up drilling nipple. Made up bottom hole assembly. Ran in hole. Circulated and conditioned mud. Pressured tested annular to 700 kPa for 15 minutes, held OK. Held prespud meeting. Drilled from 10 to 39mKB. Circulated and conditioned hole. Surveyed at 37mKB, 0.25 degrees. Survey barrel stuck in float. Tripped out to float. No totco ring. Tripped out and retrived survey barrel. Running in hole to drill ahead to 23:59 hours 1999.03.21.
SPUDDED AT 18:00 HOURS 1999.03.21.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/21
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY:
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: m KB-GL: m	SPUD DATE: @ : hrs.
RIG #: 58E	GL: m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -6 °C	FINAL TD: m FORMATION:
Midnight DEPTH: m	PROGRESS: m	PBTD: m FORMATION:
8:00 a.m. DEPTH: m	8:00 a.m. OPERATION: Rigging up	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 35811 CUMULATIVE COST: $ 315585

BHA

LENGTH: m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 0.00

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Pf	Mf	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
											0.0	0.0		

SURVEYS

AZIMUTH

° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m
° @ m

TIME BREAKDOWN

RIG MOVE RIG UP/DN 24.00

TOTAL HOURS: 24.00

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.20 @ 00:00 Hours:

Rig up water and steam lines. Filled water tank. Rigged up mud pumps. Rigged in Tesco top drive. Welded 30" flange on conductor barrel. Installed annular preventer and nipple up same to 23:59 hours 1999.03.20.

Note: Should be spudding around noon or shortly after.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 08/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/20
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY:
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: m KB-GL: m	SPUD DATE: @ : hrs.
RIG #: 58E	GL: m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -6 °C	FINAL TD: m FORMATION:
Midnight DEPTH: m	PROGRESS: m	PBTD: m FORMATION:
8:00 a.m. DEPTH: m	8:00 a.m. OPERATION: Rigging up Akita #58	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 178523 CUMULATIVE COST: $ 279774

BHA

LENGTH: m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 0.00

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
														-									
														-									
														-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY Mf	Pf/Mo	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec	HHP
											0.0	0.0		

SURVEYS

	AZIMUTH
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	
° @ m	

TIME BREAKDOWN

RIG MOVE 7.00 RIG UP/DN 9.00

TOTAL HOURS: 16.00

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.19: Finished moving and rigging in rental equipment. Rigging up. Raised derrick at 14:00 Hours 1999.03.19. Rigged in Wadeco equipment. Rigged up floor. Put up prefabs and rig shop. Strung electrical cord's. Truck off location at 17:00 Hours 1999.03.19. Move costs: Fort Laird to rack site $19,555. Rack site to location $113,895. Rentals $15,200. Camp move $4,500. Waiting on lease $16,500. Rigging up to 24:00 hours 1999.03.19.

Note: Water well at rig drilled to 90 feet. Flowing well at 35 gallons per minute.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

CD 06/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/19
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY:
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling LTD.	KB: m KB-GL: m	SPUD DATE: @ : hrs.
RIG #: 58E	GL: m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -7 °C	FINAL TD: m FORMATION:
Midnight DEPTH: m	PROGRESS: m	PBTD: m FORMATION:
8:00 a.m. DEPTH: m	8:00 a.m. OPERATION: Spotting rental equipment. Rigging up Akita 58,Wadeco,Tesco	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ 101251 CUMULATIVE COST: $ 101251

BHA

LENGTH: m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 0.00

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	O	R	REMARKS
														–										
														–										
														–										

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY kg/m3 IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER	DESANDER	DEGASSER	TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT kg/m3	HR OUT kg/m3	HR OUT kg/m3	m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
											0.0	0.0		

SURVEYS

AZIMUTH

• @ m
• @ m
• @ m
• @ m
• @ m
• @ m
• @ m
• @ m
• @ m
• @ m

TIME BREAKDOWN

RIG MOVE 12.00

TOTAL HOURS: 12.00

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.18

Moved in Akita #58 with Mullens Trucking. Spotted buildings, pumps and mud tanks. Pinned derrick. Started to rig up.

All rig loads on location.

Datalog started to rig in. Wadeco and Tesco will be rigging in tomorrow.

Drilling water well at rig tomorrow.

3 full rig crews of 7 per crew. 21 men total.

Brought 10 man sleeper over from construction camp to rig camp site.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/18
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY:
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: m KB-GL: m	SPUD DATE: @ : hrs.
RIG #: 58E	GL: m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: m	6:00 a.m. OPERATION: Moving and rigging up Akita Drilling Rig #58.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ CUMULATIVE COST: $ 0

BHA

LENGTH: m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

TOTAL ROTATING HOURS: 0.00

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WT daN	RPM	CUTTING STRUCT I	O	D	L	B	G	REMARKS O	R
														–									
														–									
														–									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY lb/cu ft OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drld. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER		DESANDER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
											0.0	0.0		

SURVEYS

AZIMUTH

° @ m
° @ m
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° @ m

TIME BREAKDOWN

RIG MOVE 7.00

TOTAL HOURS: 7.00

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.17

Levelled lease with grader. Started to move Akita Rig #58 onto location. Laid matting. Put up subs and drawworks. Put derrick together. Put up doghouse with Mullens Trucking. Shut down due to darkness.

Drilled water well beside wellsite trailers. Well flowed at 30 gallons/minute at 43.3m.

Operation Next 24:00 Hours: Continue to move and rig up.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61	LOCATION: 300-N61-6040-12330-0	DATE: 99/03/17
U.W.I.: 300-N61-6040-12330-0	CPA NO.: 300N616040123300	DAY:
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: 1863
CONTRACTOR: Akita Drilling Ltd.	KB: m KB-GL: m	SPUD DATE: @ : hrs.
RIG #: 58E	GL: m KB-CF: m	RIG RELEASE: @ : hrs.
		WELL STATUS:
WEATHER: Clear	TEMP: -5 °C	FINAL TD: m FORMATION:
Midnight DEPTH: m	PROGRESS: 0.00 m	PBTD: m FORMATION:
8:00 a.m. DEPTH: 23.00 m	8:00 a.m. OPERATION: Levelling lease. Preparing to move on rig.	

AFE #: A983003 AFE AMT: $11253700 DAILY COST: $ CUMULATIVE COST: $

BHA

LENGTH: m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:	TOTAL ROTATING HOURS:

WT. ON BIT: daN ROTARY RPM: STRING WT.: daN

DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm 1	2	3	DEPTH IN	OUT	MTRS	MTRS PER HOUR	HOURS ON BIT DRL.	RMD	BIT WTdaN	RPM	CUTTING STRUCT. I	O	D	L	B	G	REMARKS O	R
														-									
														-									
														-									

LAST PIPE TALLY: BOARD: CORRECTION: YES [ ] NO [ ]

MUD

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS 0/10	Tot. Sol. kg/m3	Drill. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MPI	MPO	°C IN/OUT
	/				/	/											/
	/				/	/											/

CENTRIFUGE				DESILTER		DEGAHOER		DEGASSER		TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP

PUMP NO. 1 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PUMP NO. 2 TYPE: MODEL	LINER mm	STROKE mm	SPM	m3/MIN	PRESSURE kPa	ANNULAR VELOCITY DP m/MIN	DC m/MIN	JET VELOCITY m/sec.	HHP
											0.0	0.0		

SURVEYS

	AZIMUTH
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	
@ m	

TIME BREAKDOWN

TOTAL HOURS:

MUD ADDITIVES

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.03.14:
Moved and rigged up 30 man Beaver Camp.
1999.03.15:
OK Rathole started drilling Conductor. Cooks arrived for camp.
1999.03.16:
Continued drilling rathole and levelling lease. Hauled gravel onto lease. Finished conductor hole. Drilled 914.4mm conductor hole from 0m to 23.7m with OK Rathole Drilling. Set 762mm conductor barrel at 23.7m. Cemented with 20 tonnes 0-1-0 Class "G" plus 3% CaCl2 with Sanjel Cementers. Finished cementing at 20:50 hours 1999.03.16.

SUPERVISOR: Bill Shudra PHONE #: (600) 700-2629 CALLING CARD#: 454-037-6130-5210

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST ET AL FLETT N-61 DATE: 99/03/17
LOCATION: 300-N61-6040-12330-0 U.W.I.: 300-N61-6040-12330-0

DAY: DEPTH: m PROGRESS: 0.00 m CPA NO.: 300N616040123300

WEATHER: Clear TEMP: -5 °C
8:00 a.m. OPERATION: Levelling lease. Preparing to move on rig.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Cement top 0.30m below ground.
Ratholers finished digging mouse hole and installed cellar crib.
Lease has to be levelled off with grader prior to moving on drilling rig. Should be done by noon March 17, 1999.

REPORTED BY: Bill Shudra

PHONE #: (600) 700-2629
CALLING CARD #: 454-037-6130-5210